

1922

E. P. K.



# Calendar 1922

1922	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	1922	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SUN.	1	5	5	2	7	4	SUN.	2	6	3	8	5	3
MON.	2	6	6	3	8	5	MON.	3	7	4	9	6	4
TUE.	3	7	7	4	9	6	TUE.	4	8	5	10	7	5
WED.	4	8	8	5	10	7	WED.	5	9	6	11	8	6
THU.	5	9	9	6	11	8	THU.	6	10	7	12	9	7
FRI.	6	10	10	7	12	9	FRI.	7	11	8	13	10	8
SAT.	7	11	11	8	13	10	SAT.	8	12	9	14	11	9
	8	12	12	9	14	11		9	13	10	15	12	10
	15	19	19	16	17	14		16	20	17	16	19	17
	22	26	26	23	24	21		23	27	24	23	26	24
	29			30	31			30		27	30	31	
	30							31		28			
		5	5	2	7	4			6	3	8	5	3
	12	16	16	13	14	11		13	17	14	15	12	10
	19	23	23	20	21	18		20	24	21	22	19	17
	26			27	28			27		24	27	24	
		5	5	2	7	4			13	10	11	8	6
	12	16	16	13	14	11		16	20	17	18	15	13
	19	23	23	20	21	18		23	27	24	25	22	20
	26			27	28			30		27	30	31	
		5	5	2	7	4			20	17	18	15	13
	12	16	16	13	14	11		17	21	18	19	16	14
	19	23	23	20	21	18		24	28	25	26	23	21
	26			27	28			31		28	31	28	
		5	5	2	7	4			27	24	25	22	20
	12	16	16	13	14	11		1	23	20	21	18	16
	19	23	23	20	21	18		8	30	27	28	25	23
	26			27	28			15		31		28	
		5	5	2	7	4		22	26		29	26	24
	12	16	16	13	14	11		29	3	31	3	30	28
	19	23	23	20	21	18			10		10	7	5
	26			27	28				17	14	17	14	12
		5	5	2	7	4			24	21	22	19	17
	12	16	16	13	14	11			31	28	29	26	24
	19	23	23	20	21	18							
	26			27	28								

# Postage

CLASSIFICATION	DOMESTIC	FOREIGN
Letters . . . . .	2c. per oz. <sup>oo</sup>	5c. per oz.*†
Postal Cards. and Post Cards	1c. each	2c. each
Newspapers, Magazines, Periodicals . . . . .	1c. 4 ozs.	1c., 2 ozs.
Printed Books,** Photos, Circulars, etc . . . . .	1c., 2 ozs.	1c., 2 ozs.
Merchandise. . . . .	1c. per oz.§ up to 4 ozs.	Samples 2c., 4 ozs.† <sup>o</sup>

Registry fee 10 cents in addition to postage, Domestic or Foreign. Domestic Parcel Post matter cannot be registered, but it can be insured to a value not exceeding \$5 for a fee of 3c.; \$25 for a fee of 5c.; \$50 for a fee of 10c.; \$100 for a fee of 25c.

\*Each additional ounce or fraction, 3 cents.

†Great Britain and Ireland; Newfoundland, Bahamas, Barbados, British Guiana, British Honduras, Leeward Islands, Dutch West Indies, New Zealand, and Dominican Republic, 2c. oz.

‡Each additional 2 ounces, 1 cent.

§Over 4 ounces at parcel post rate (according to distance). Inquire at P.O.

§SEEDS, BULBS, ETC.--The rate on seeds, bulbs, etc., weighing 8 oz. or less is 1 c. 2 oz.

\*\*Printed books over eight ounces subject to parcel post rates.

°Merchandise to foreign countries by Foreign Parcel Post.--Inquire at P. O.

oo"Drop" Letters, 2c. oz.

DOMESTIC PARCEL POST.--Merchandise may be sent by domestic parcel post, the rates depending upon weight and distance, concerning which inquire at P. O.

REQUIREMENTS.--Sender's name and address must appear on the package--Otherwise unmailable.

Parcels over four ounces must be mailed at post office or places designated--not in street boxes.

Contents easily examined.

Limit of size 84 inches in length and girth combined.

Subject to change after going to press.



## Church Calendar 1922

### JANUARY

- 1 Circumcision.
- 6 Epiphany.
- 8 i Sun. after Epiphany.
- 15 ii " " "
- 22 iii " " "
- 25 Conversion St. Paul.
- 29 iv Sun. after Epiphany

### FEBRUARY

- 5 v Sun. after Epiphany
- 12 Septuagesima.
- 19 Sexagesima.
- 26 Quinquagesima.

### MARCH

- 1 Ash Wed. (Lent beg.)
- 5 Quadragesima (Lent I).
- 12 ii Sunday in Lent.
- 19 iii " " "
- 26 { iv " " "
- Mid Lent

### APRIL

- 2 v Sunday in Lent.
- 9 Palm Sunday.
- 14 Good Friday
- 16 Easter Sunday.
- 23 { Low Sunday.
- St. George
- 25 St. Mark.
- 30 ii Sunday after Easter

### MAY

- 1 St. Philip and St. James
- 7 iii Sunday after Easter
- 14 iv " " "
- 21 (Rogation Sunday)
- 25 Ascension (Holy) Thur.
- 28 Sun. after Ascension.

### JUNE

- 4 Whitsunday (Pentecost)
- 11 { Trinity Sunday,
- St. Barnabas.
- 15 Corpus Christi,
- 18 i Sunday after Trinity
- 25 ii " " "

### JULY

- 2 iii Sunday after Trinity.
- 9 iv " " "
- 16 v " " "
- 23 vi " " "
- 25 St. James,
- 30 vii Sunday after Trinity

### AUGUST

- 6 { Transfiguration.
- viii Sunday after Trinity.
- 13 ix " " "
- 20 x " " "
- 24 St. Bartholomew,
- 27 xi Sunday after Trinity.

### SEPTEMBER

- 3 xii Sunday after Trinity
- 10 xiii " " "
- 17 xiv " " "
- 24 xv " " "
- 29 { St. John and All Angels.
- Michaelmas.

### OCTOBER

- 1 xvi Sunday after Trinity.
- 8 xvii " " "
- 15 xviii " " "
- 18 St. Luke.
- 22 xix Sunday after Trinity.
- 28 St. Simon and St. Jude.
- 29 xx Sunday after Trinity

### NOVEMBER

- 1 All Saints Day.
- 2 All Souls Day.
- 5 xxi Sunday after Trinity
- 12 xxii " " "
- 19 xxiii " " "
- 26 xxiv " " "
- 30 Thanksgiving.

### DECEMBER

- 3 i Sunday in Advent.
- 10 ii " " "
- 17 iii " " "
- 21 St. Thomas.
- 25 Christmas.
- 31 i Sunday after Christmas

## Eclipses 1922

There will be but two eclipses in 1922, the least number possible, and as always the case in such an instance, both must be of the Sun. They are as follows:

I. Annular, Mch, 28, visible in the U. S. only in Peninsular Florida and exceedingly small, near sunrise, The annular belt runs through the equatorial regions of S. America and Africa, crosses the Suez Canal, terminating at the Persian Gulf.

II. Total Sept. 20-21, invisible in the U. S. The belt of totality runs from the east coast of Equatorial Africa across the Indian Ocean, crosses Australia and terminates near New Zealand.

## THE PLANETS

### MORNING STARS:

MERCURY, Mch, 2 to 10 and Oct. 25 to Nov. 5. VENUS until Feb. 9 and after Nov. 25. MARS until Feb. 20. JUPITER until Jan. 8 and after Oct. 23. SATURN until Jan. 8 and after Oct. 4.

### EVENING STARS:

MERCURY, Jan. 28 to Feb. 5 and Sept. 20 to 30. VENUS, from Feb. 9 to Nov. 25. MARS, after Feb. 20. JUPITER, from Jan. 8 to Oct. 23. SATURN, from Jan. 8 to Oct. 4.

### BRIGHTEST OR BEST SEEN:

MERCURY, within the time limits given above. VENUS, Oct. 15 to 25 and Dec. 25 to Jan. 5, 1923. MARS June 5 to 20, being nearest the earth on the 18th. JUPITER, April 1 to 10. SATURN, March 20-30. URANUS, Aug. and September, and NEPTUNE in Jan. and Feb.

### INVISIBLE OR VERY DIM:

MERCURY, at all times other than within the time limits given above when an evening or morning star. VENUS, in Feb. and Nov. 20 to Dec 10. MARS, in Dec. JUPITER in Oct. and Nov. SATURN in Sept. and Oct. and URANUS and NEPTUNE always.

### ALL-NIGHT STARS:

MARS, June 5-20, JUPITER, Mar. 28 to Apr. 10 and SATURN the latter part of March and early in April.



# January, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter 6D.	5 H. 24 M.	4 H. 24 M.	3 H. 24 M.
☾ Full Moon.. 13D.	9 H. 36 M.	8 H. 36 M.	7 H. 36 M.
☾ Last Quarter 20D.	1 H. 0 M.	12 H. 0 M.	11 H. 0 M.
☾ New Moon.. 27D.	6 H. 48 M.	5 H. 48 M.	4 H. 48 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				DAY OF MONTH	DAY OF WEEK	Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time			MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon R. & S.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon R. & S.	H.W. Boston N. Yd.
7 25	4 43	8 18	9 57	1	S.	7 30	4 38	8 16	1 22
7 25	4 44	9 14	10 30	2	Mo.	7 30	4 39	9 12	2 4
7 25	4 45	10 10	11 5	3	Tu.	7 30	4 40	10 9	2 47
7 25	4 46	11 5	11 44	4	We.	7 30	4 41	11 5	3 33
7 25	4 47	morn	12 29	5	Th.	7 30	4 42	morn	4 21
7 25	4 48	3	1 23	6	Fri.	7 29	4 43	4	5 12
7 25	4 49	1 0	2 28	7	Sa.	7 29	4 44	1 2	5 41
7 24	4 50	1 59	3 34	8	S.	7 29	4 45	2 2	6 33
7 24	4 51	3 0	4 36	9	Mo.	7 29	4 46	3 3	7 25
7 24	4 52	4 2	5 31	10	Tu.	7 29	4 47	4 5	8 16
7 24	4 53	5 2	6 22	11	We.	7 29	4 48	5 7	9 8
7 23	4 54	6 1	6 41	12	Th.	7 28	4 50	6 6	9 58
7 23	4 55	rises	7 29	13	Fri.	7 28	4 51	rises	10 49
7 23	4 56	6 37	8 17	14	Sa.	7 28	4 52	6 35	11 39
7 22	4 57	7 49	9 6	15	S.	7 27	4 53	7 48	12 30
7 22	4 59	9 2	9 57	16	Mo.	7 27	4 54	9 1	1 21
7 21	5 0	10 12	10 57	17	Tu.	7 26	4 55	10 12	2 15
7 21	5 1	11 20	11 50	18	We.	7 26	4 56	11 22	3 9
7 20	5 2	morn	12 54	19	Th.	7 25	4 58	morn	4 7
7 20	5 3	27	2 4	20	Fri.	7 24	4 59	29	5 7
7 19	5 4	1 31	3 13	21	Sa.	7 24	5 0	1 34	5 38
7 18	5 5	2 33	4 17	22	S.	7 23	5 1	2 36	6 39
7 17	5 7	3 31	5 14	23	Mo.	7 22	5 3	3 35	7 37
7 17	5 8	4 25	6 5	24	Tu.	7 22	5 4	4 30	8 33
7 16	5 9	5 16	6 51	25	We.	7 21	5 5	5 20	9 26
7 16	5 10	6 1	7 8	26	Th.	7 20	5 6	6 4	10 14
7 15	5 11	6 41	7 48	27	Fri.	7 19	5 8	6 44	10 57
7 14	5 13	sets	8 22	28	Sa.	7 18	5 9	sets	11 37
7 13	5 14	7 6	8 55	29	S.	7 17	5 10	7 4	12 16
7 12	5 15	8 2	9 25	0	Mo.	7 16	5 12	8 1	12 55
7 12	5 16	8 57	9 52	31	Tu.	7 15	5 13	8 57	1 35

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

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# February, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter 4D.	11 H. 52 M.	10 H. 52 M.	9 H. 52 M.
☾ Full Moon.. 11D.	8 H. 17 M.	7 H. 17 M.	6 H. 17 M.
☾ Last Quarter 18D.	1 H. 18 M.	0 H. 18 M.	11 H. 18 M.
☾ New Moon.. 26D.	1 H. 47 M.	0 H. 47 M.	11 H. 47 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				DAY OF MONTH	DAY OF WEEK	Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time			MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon R. & S.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon R. & S.	H.W. Boston N. Yd.
7 11	5 18	9 54	10 21	1	We.	7 14	5 14	9 54	2 17
7 10	5 19	10 50	10 55	2	Th.	7 13	5 15	10 51	3 0
7 9	5 20	11 47	11 36	3	Fri.	7 12	5 16	11 49	3 45
7 7	5 21	morn	12 26	4	Sa.	7 11	5 18	morn	4 34
7 6	5 22	46	1 26	5	S.	7 10	5 19	49	5 27
7 5	5 23	1 45	2 38	6	Mo.	7 9	5 21	1 49	5 53
7 4	5 25	2 44	3 59	7	Tu.	7 8	5 22	2 48	6 48
7 3	5 26	3 44	5 7	8	We.	7 6	5 23	3 49	7 44
7 2	5 27	4 39	6 5	9	Th.	7 5	5 24	4 43	8 40
7 1	5 28	5 32	6 57	10	Fri.	7 4	5 25	5 35	9 34
7 0	5 30	rises	7 16	11	Sa.	7 2	5 26	rises	10 28
6 58	5 31	6 36	8 6	12	S.	7 1	5 28	6 35	11 21
6 57	5 32	7 49	8 56	13	Mo.	7 0	5 29	7 49	12 13
6 56	5 34	9 2	9 46	14	Tu.	6 59	5 30	9 2	1 5
6 55	5 35	10 12	10 37	15	We.	6 57	5 32	10 14	1 57
6 53	5 36	11 20	11 33	16	Th.	6 56	5 33	11 22	2 51
6 52	5 37	morn	12 33	17	Fri.	6 54	5 35	morn	3 46
6 51	5 39	23	1 41	18	Sa.	6 53	5 36	27	4 43
6 49	5 40	1 24	2 51	19	S.	6 52	5 38	1 28	5 43
6 48	5 41	2 20	3 57	20	Mo.	6 50	5 39	2 25	6 12
6 46	5 43	3 12	4 57	21	Tu.	6 48	5 40	3 16	7 10
6 45	5 44	3 59	5 48	22	We.	6 47	5 42	4 3	8 8
6 44	5 45	4 41	6 32	23	Th.	6 45	5 43	4 44	9 0
6 42	5 46	5 19	7 12	24	Fri.	6 44	5 45	5 22	9 47
6 41	5 48	5 52	7 25	25	Sa.	6 42	5 46	5 55	10 31
6 39	5 49	sets	7 59	26	S.	6 41	5 47	sets	11 12
6 38	5 50	6 52	8 29	27	Mo.	6 39	5 49	6 51	11 52
6 37	5 51	7 47	8 56	28	Tu.	6 38	5 50	7 47	12 30

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

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# March, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter 6D.	2 H. 22 M.	1 H. 22 M.	0 H. 22 M.
☾ Full Moon.. 13D.	6 H. 14 M.	5 H. 14 M.	4 H. 14 M.
☾ Last Quarter 20D.	3 H. 43 M.	2 H. 43 M.	1 H. 43 M.
☾ New Moon.. 28D.	8 H. 3 M.	7 H. 3 M.	6 H. 3 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon R. & S.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon R. & S.	H.W. Boston N. Yd.
6 35	5 53	8 44	9 21	1	We.	6 36	5 51	8 45	1 9
6 34	5 53	9 41	9 48	2	Th.	6 35	5 52	9 43	1 49
6 32	5 54	10 38	10 22	3	Fri.	6 33	5 53	10 40	2 30
6 30	5 55	11 36	11 2	4	Sa.	6 31	5 54	11 39	3 14
6 29	5 56	morn	11 49	5	S.	6 30	5 55	morn	4 2
6 27	5 57	33	12 47	6	Mo.	6 28	5 56	37	4 55
6 25	5 58	1 31	2 0	7	Tu.	6 26	5 57	1 35	5 52
6 24	5 59	2 26	3 29	8	We.	6 25	5 58	2 30	6 16
6 22	6 0	3 18	4 45	9	Th.	6 23	5 59	3 22	7 16
6 20	6 1	4 7	5 47	10	Fri.	6 21	6 0	4 10	8 15
6 19	6 2	4 52	6 41	11	Sa.	6 20	6 2	4 54	9 13
6 17	6 3	5 33	7 2	12	S.	6 18	6 3	5 35	10 9
6 16	6 4	rises	7 53	13	Mo.	6 16	6 4	rises	11 2
6 14	6 5	7 47	8 42	14	Tu.	6 14	6 5	7 49	11 55
6 12	6 6	8 58	9 32	15	We.	6 13	6 6	9 0	12 46
6 11	6 8	10 7	10 22	16	Th.	6 11	6 7	10 10	1 38
6 9	6 9	11 12	11 15	17	Fri.	6 9	6 9	11 15	2 30
6 7	6 10	morn	12 13	18	Sa.	6 7	6 10	morn	3 24
6 6	6 11	12	1 17	19	S.	6 6	6 11	16	4 18
6 4	6 12	1 7	2 27	20	Mo.	6 4	6 12	1 11	5 16
6 2	6 13	1 55	3 33	21	Tu.	6 2	6 13	1 59	6 16
6 1	6 14	2 40	4 32	22	We.	6 0	6 14	2 42	6 38
5 59	6 15	3 19	5 22	23	Th.	5 59	6 15	3 22	7 35
5 58	6 16	3 54	6 7	24	Fri.	5 57	6 16	3 57	8 28
5 56	6 17	4 27	6 21	25	Sa.	5 55	6 17	4 28	9 17
5 54	6 18	4 58	6 59	26	S.	5 53	6 18	4 59	10 1
5 52	6 19	5 26	7 34	27	Mo.	5 52	6 19	5 27	10 43
5 51	6 20	sets	8 4	28	Tu.	5 50	6 20	sets	11 24
5 49	6 21	7 34	8 30	29	We.	5 48	6 21	7 36	12 3
5 47	6 22	8 32	8 56	30	Th.	5 46	6 22	8 35	12 43
5 45	6 23	9 30	9 24	31	Fri.	5 44	6 23	9 33	1 23

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures 12 noon to 12 midnight.

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# April, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter 5D.	0 H. 46 M.	11 H. 46 M.	10 H. 46 M.
☾ Full Moon.. 11D.	3 H. 44 M.	2 H. 44 M.	1 H. 44 M.
☾ Last Quarter 18D.	7 H. 54 M.	6 H. 54 M.	5 H. 54 M.
☾ New Moon.. 27D.	0 H. 4 M.	11 H. 4 M.	10 H. 4 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
5 44	6 24	10 28	9 58	1	Sa.	5 43	6 25	10 31	2 4
5 42	6 26	11 26	10 38	2	S.	5 41	6 27	11 30	2 49
5 41	6 27	morn	11 26	3	Mo.	5 40	6 28	morn	3 37
5 39	6 28	20	12 25	4	Tu.	5 38	6 29	24	4 30
5 37	6 29	1 12	1 38	5	We.	5 37	6 30	1 16	5 27
5 36	6 30	1 59	3 8	6	Th.	5 35	6 31	2 3	6 27
5 34	6 31	2 45	4 25	7	Fri.	5 33	6 32	2 47	6 51
5 33	6 32	3 26	5 27	8	Sa.	5 31	6 33	3 28	7 53
5 31	6 33	4 5	6 22	9	S.	5 30	6 34	4 6	8 52
5 30	6 34	4 44	6 45	10	Mo.	5 28	6 36	4 44	9 49
5 28	6 35	rises	7 37	11	Tu.	5 26	6 37	rises	10 44
5 26	6 36	7 44	8 27	12	We.	5 25	6 38	7 46	11 37
5 25	6 37	8 52	9 16	13	Th.	5 23	6 39	8 55	12 28
5 24	6 38	9 56	10 5	14	Fri.	5 21	6 40	10 0	1 18
5 22	6 39	10 55	10 57	15	Sa.	5 20	6 41	10 59	2 8
5 20	6 40	11 49	11 52	16	S.	5 18	6 42	11 53	3 0
5 19	6 41	morn	12 51	17	Mo.	5 16	6 43	morn	3 52
5 17	6 42	35	1 55	18	Tu.	5 15	6 45	39	4 46
5 16	6 43	1 17	2 58	19	We.	5 13	6 46	1 20	5 42
5 14	6 44	1 54	3 56	20	Th.	5 12	6 47	1 57	6 37
5 13	6 45	2 27	4 48	21	Fri.	5 10	6 48	2 29	6 56
5 11	6 46	2 59	5 33	22	Sa.	5 9	6 49	3 1	7 50
5 10	6 47	3 28	6 13	23	S.	5 7	6 50	3 28	8 41
5 8	6 48	3 58	6 26	24	Mo.	5 6	6 51	3 57	9 27
5 7	6 49	4 17	7 3	25	Tu.	5 4	6 52	4 16	10 12
5 6	6 50	4 59	7 36	26	We.	5 3	6 53	4 58	10 54
5 4	6 51	sets	8 7	27	Th.	5 1	6 55	sets	11 35
5 3	6 52	8 22	8 37	28	Fri.	5 0	6 56	8 25	12 16
5 2	6 53	9 20	9 7	29	Sa.	4 58	6 57	9 24	12 58
5 0	6 55	10 16	9 44	30	S.	4 57	6 58	10 20	1 42

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

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# May, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter. 4D.	7 H. 56 M.	6 H. 56 M.	5 H. 56 M.
☾ Full Moon... 11D.	1 H. 6 M.	0 H. 6 M.	11 H. 6 (10)
☾ Last Quarter. 18D.	1 H. 17 M.	0 H. 17 M.	11 H. 17 M.
☾ New Moon... 26D.	1 H. 4 M.	0 H. 4 M.	11 H. 4 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.	Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
4 59	6 56	11 9	10 27	4 56	7 0	11 13	2 27
4 58	6 57	11 59	11 17	4 54	7 1	morn	3 17
4 56	6 58	morn	12 17	4 53	7 2	2	4 10
4 55	6 59	43	1 30	4 52	7 3	46	5 7
4 54	7 0	1 25	2 53	4 51	7 4	1 27	6 7
4 53	7 1	2 3	4 4	4 49	7 5	2 4	6 31
4 52	7 2	2 40	5 6	4 48	7 6	2 40	7 34
4 51	7 3	3 16	6 3	4 47	7 7	3 16	8 33
4 49	7 4	3 54	6 26	4 46	7 8	3 53	9 31
4 48	7 5	4 33	7 20	4 44	7 9	4 31	10 25
4 47	7 6	rises	8 10	4 43	7 10	rises	11 18
4 46	7 7	8 39	9 0	4 42	7 11	8 43	12 8
4 45	7 8	9 36	9 49	4 41	7 12	9 40	12 57
4 44	7 9	10 27	10 38	4 40	7 13	10 31	1 48
4 43	7 10	11 12	11 29	4 39	7 14	11 16	2 34
4 42	7 11	11 52	12 23	4 38	7 15	11 55	3 24
4 41	7 12	morn	1 19	4 37	7 16	morn	4 13
4 40	7 13	28	2 16	4 36	7 17	30	5 5
4 39	7 14	1 0	3 11	4 35	7 18	1 1	5 57
4 39	7 15	1 30	4 3	4 34	7 19	1 31	6 47
4 38	7 16	1 59	4 49	4 33	7 20	1 59	7 9
4 37	7 17	2 28	5 31	4 32	7 21	2 27	8 0
4 36	7 18	3 0	6 11	4 31	7 22	2 58	8 50
4 36	7 19	3 31	6 28	4 31	7 23	3 28	9 37
4 35	7 20	4 7	7 6	4 30	7 24	4 4	10 23
4 34	7 20	4 47	7 42	4 29	7 25	4 43	11 6
4 34	7 21	sets	8 18	4 29	7 26	sets	11 52
4 33	7 22	9 5	8 56	4 28	7 27	9 9	12 34
4 32	7 23	9 56	9 38	4 27	7 28	10 0	1 20
4 32	7 23	10 44	10 24	4 27	7 28	10 47	2 8
4 31	7 24	11 26	11 17	4 26	7 29	11 29	2 58

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

5-22

# June, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ First Quarter 2d.	1 H. 10 M.	0 H. 10 M.	11 H. 10 M.
☾ Full Moon.. 9D.	10 H. 58 M.	9 H. 58 M.	8 H. 58 M.
☾ Last Quarter. 17D.	7 H. 3 M.	6 H. 3 M.	5 H. 3 M.
☾ New Moon.. 24D.	11 H. 20 M.	10 H. 20 M.	9 H. 20 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.	Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
4 31	7 24	morn	12 16	4 25	7 30	morn	3 52
4 30	7 25	6	1 24	4 25	7 30	7	4 48
4 30	7 26	42	2 35	4 25	7 31	42	5 46
4 30	7 26	1 18	3 43	4 24	7 32	1 17	6 47
4 29	7 27	1 53	4 45	4 24	7 32	1 52	7 15
4 29	7 28	2 30	5 42	4 24	7 33	2 27	8 16
4 29	7 28	3 10	6 9	4 23	7 33	3 7	9 14
4 29	7 29	3 55	7 3	4 23	7 34	3 51	10 9
4 28	7 30	rises	7 54	4 23	7 35	rises	11 0
4 28	7 30	8 18	8 42	4 23	7 36	8 22	11 49
4 28	7 31	9 7	9 30	4 22	7 36	9 10	12 36
4 28	7 31	9 49	10 16	4 22	7 37	9 52	1 22
4 28	7 32	10 27	11 3	4 22	7 37	10 29	2 6
4 28	7 32	11 0	11 50	4 22	7 38	11 2	2 53
4 28	7 32	11 32	12 36	4 22	7 38	11 33	3 39
4 28	7 33	12 0	1 25	4 22	7 38	morn	4 27
4 28	7 33	morn	2 15	4 22	7 39	1	5 18
4 28	7 33	30	3 6	4 22	7 39	30	6 6
4 28	7 34	59	3 55	4 22	7 39	57	6 28
4 29	7 34	1 29	4 42	4 23	7 40	1 27	7 20
4 29	7 34	2 3	5 27	4 23	7 40	2 1	8 12
4 29	7 34	2 41	6 10	4 23	7 40	2 38	9 3
4 29	7 34	3 24	6 33	4 23	7 40	3 21	9 51
4 29	7 35	4 13	7 17	4 23	7 40	4 9	10 38
4 30	7 35	sets	8 2	4 24	7 41	sets	11 24
4 30	7 35	8 40	8 47	4 24	7 41	8 43	12 7
4 30	7 35	9 25	9 33	4 24	7 41	9 28	12 58
4 31	7 35	10 7	10 22	4 25	7 40	10 9	1 47
4 31	7 35	10 44	11 14	4 25	7 40	10 45	2 38
4 32	7 35	11 21	12 11	4 26	7 40	11 21	3 32

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

6-22



# July, 1922

MOON'S PHASES	East Time	Cent. Time	West. Time
☾ First Quarter 1D.	5 H. 52 M.	4 H. 52 M.	3 H. 52 M.
☾ Full Moon. 8D.	10 H. 7 M.	9 H. 7 M.	8 H. 7 M.
☾ Last Quarter. 17D.	0 H. 11 M.	11 H. 11 M.	10 H. 11 M.
☾ New Moon. 24D.	7 H. 47 M.	6 H. 47 M.	5 H. 47 M.
☾ First Quarter 30D.	11 H. 22 M.	10 H. 22 M.	9 H. 22 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
4 32	7 35	11 56	1 14	1	Sa.	4 26	7 40	11 56	4 29
4 32	7 35	morn	2 19	2	S.	4 26	7 40	morn	5 27
4 33	7 34	33	3 25	3	Mo.	4 27	7 40	32	5 56
4 33	7 34	1 11	4 27	4	Tu.	4 28	7 40	1 8	6 57
4 34	7 34	1 52	5 25	5	We.	4 29	7 39	1 49	7 58
4 35	7 34	2 37	6 18	6	Th.	4 29	7 39	2 34	8 56
4 35	7 33	3 26	6 46	7	Fri.	4 30	7 39	3 22	9 51
4 36	7 33	rises	7 37	8	Sa.	4 30	7 38	rises	10 42
4 37	7 33	7 44	8 24	9	S.	4 31	7 38	7 48	11 29
4 37	7 32	8 24	9 8	10	Mo.	4 32	7 38	8 27	12 12
4 38	7 32	9 0	9 51	11	Tu.	4 33	7 37	9 3	12 55
4 39	7 31	9 32	10 31	12	We.	4 33	7 37	9 33	1 37
4 39	7 31	10 2	11 11	13	Th.	4 34	7 36	10 3	2 19
4 40	7 30	10 32	11 50	14	Fri.	4 35	7 36	10 32	3 3
4 41	7 30	11 1	12 28	15	Sa.	4 36	7 35	11 0	3 47
4 42	7 29	11 30	1 10	16	S.	4 37	7 34	11 29	4 35
4 43	7 29	morn	1 57	17	Mo.	4 37	7 34	12 0	5 23
4 44	7 28	2	2 49	18	Tu.	4 38	7 33	morn	5 48
4 45	7 27	37	3 44	19	We.	4 39	7 32	34	6 40
4 46	7 26	1 17	4 39	20	Th.	4 40	7 31	1 13	7 34
4 47	7 26	2 2	5 32	21	Fri.	4 41	7 30	1 58	8 27
4 48	7 25	2 54	6 21	22	Sa.	4 42	7 30	2 50	9 18
4 48	7 24	3 53	7 9	23	S.	4 43	7 29	3 49	10 7
4 49	7 23	sets	7 44	24	Mo.	4 44	7 28	sets	10 58
4 50	7 23	8 3	8 32	25	Tu.	4 45	7 27	8 5	11 47
4 51	7 22	8 44	9 21	26	We.	4 46	7 26	8 45	12 38
4 52	7 21	9 21	10 11	27	Th.	4 47	7 25	9 22	1 27
4 53	7 20	9 58	11 4	28	Fri.	4 48	7 24	9 57	2 18
4 54	7 19	10 37	12 1	29	Sa.	4 49	7 23	10 36	3 12
4 55	7 18	11 13	1 0	30	S.	4 50	7 22	11 11	4 8
4 56	7 17	11 53	2 2	31	Mo.	4 51	7 21	11 50	5 6

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.  
Heavy figures, 12 noon to 12 midnight.

7-22

# August, 1922

MOON'S PHASES	Cent. Time	West. Time
☾ Full Moon. 7D.	11 H. 19 M.	10 H. 19 M.
☾ Last Quarter 15D.	3 H. 46 M.	2 H. 46 M.
☾ New Moon. 22D.	3 H. 34 M.	2 H. 34 M.
☾ First Quarter 29D.	6 H. 55 M.	5 H. 55 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
4 56	7 16	morn	3 7	1	Tu.	4 52	7 20	morn	6 6
4 57	7 14	36	4 10	2	We.	4 53	7 18	32	7 6
4 58	7 13	1 22	5 8	3	Th.	4 54	7 17	1 18	7 41
4 59	7 12	2 14	6 0	4	Fri.	4 55	7 16	2 10	8 40
5 0	7 11	3 8	6 29	5	Sa.	4 56	7 15	3 4	9 33
5 1	7 10	4 3	7 17	6	S.	4 57	7 14	4 0	10 22
5 2	7 9	rises	8 0	7	Mo.	4 58	7 12	rises	11 6
5 3	7 7	7 33	8 41	8	Tu.	4 59	7 11	7 35	11 47
5 4	7 6	8 4	9 19	9	We.	5 0	7 10	8 6	12 27
5 5	7 5	8 34	9 54	10	Th.	5 1	7 8	8 34	1 6
5 6	7 4	9 2	10 28	11	Fri.	5 2	7 7	9 2	1 45
5 7	7 2	9 32	11 0	12	Sa.	5 3	7 6	9 31	2 27
5 8	7 1	10 3	11 31	13	S.	5 4	7 4	10 1	3 9
5 9	7 0	10 35	12 9	14	Mo.	5 5	7 3	10 33	3 55
5 10	6 58	11 12	12 53	15	Tu.	5 6	7 1	11 9	4 43
5 11	6 57	11 54	1 46	16	We.	5 7	7 0	11 50	5 33
5 12	6 55	morn	2 48	17	Th.	5 8	6 58	morn	6 27
5 13	6 54	41	3 54	18	Fri.	5 10	6 57	37	6 59
5 14	6 53	1 35	4 57	19	Sa.	5 11	6 55	1 31	7 55
5 15	6 51	2 37	5 54	20	S.	5 12	6 54	2 33	8 48
5 16	6 50	3 43	6 29	21	Mo.	5 13	6 52	3 40	9 42
5 17	6 48	4 53	7 21	22	Tu.	5 14	6 51	4 51	10 33
5 17	6 47	sets.	8 12	23	We.	5 15	6 49	sets	11 24
5 18	6 45	7 56	9 2	24	Th.	5 16	6 48	7 56	12 13
5 19	6 44	8 33	9 54	25	Fri.	5 17	6 46	8 32	1 4
5 20	6 42	9 13	10 47	26	Sa.	5 18	6 44	9 11	1 55
5 21	6 41	9 53	11 44	27	S.	5 19	6 43	9 50	2 49
5 22	6 39	10 35	12 43	28	Mo.	5 20	6 41	10 32	3 45
5 23	6 37	11 22	1 45	29	Tu.	5 21	6 39	11 18	4 43
5 24	6 36	morn	2 49	30	We.	5 22	6 38	morn	5 43
5 25	6 34	11	3 51	31	Th.	5 23	6 36	7	6 44

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.  
Heavy figures, 12 noon to 12 midnight.

8-22



# September, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ Full Moon... 6D.	2 H. 47 M.	1 H. 47 M.	0 H. 47 M.
☾ Last Quarter 14D.	5 H. 20 M.	4 H. 20 M.	3 H. 20 M.
☾ New Moon... 20D.	11 H. 38 M.	10 H. 38 M.	9 H. 38 M.
☾ First Quarter 27D.	5 H. 40 M.	4 H. 40 M.	3 H. 40 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				DAY OF MONTH	DAY OF WEEK	Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time			MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon R. & S.	H.W. Boston N. Yd.
5 26	6 33	1 4	4 47	1	Fri.	5 24	6 35	1 0	7 20
5 27	6 31	1 58	5 38	2	Sa.	5 26	6 33	1 55	8 19
5 28	6 29	2 54	6 8	3	S.	5 27	6 31	2 50	9 11
5 29	6 28	3 52	6 51	4	Mo.	5 28	6 29	3 49	9 57
5 30	6 26	4 48	7 32	5	Tu.	5 29	6 28	4 46	10 39
5 31	6 25	rises	8 8	6	We.	5 30	6 26	rises	11 18
5 32	6 23	7 6	8 43	7	Th.	5 31	6 24	7 6	11 57
5 33	6 21	7 35	9 14	8	Fri.	5 32	6 22	7 34	12 34
5 34	6 20	8 5	9 43	9	Sa.	5 33	6 21	8 3	1 12
5 35	6 18	8 35	10 11	10	S.	5 34	6 19	8 33	1 52
5 36	6 16	9 11	10 42	11	Mo.	5 35	6 17	9 8	2 33
5 37	6 15	9 51	11 22	12	Tu.	5 36	6 15	9 47	3 17
5 38	6 13	10 35	12 9	13	We.	5 37	6 14	10 31	4 4
5 39	6 11	11 24	1 3	14	Th.	5 38	6 12	11 20	4 56
5 40	6 9	morn	2 8	15	Fri.	5 39	6 10	morn	5 53
5 41	6 8	20	3 20	16	Sa.	5 40	6 8	16	6 28
5 42	6 6	1 22	4 28	17	S.	5 41	6 7	1 19	7 26
5 43	6 4	2 29	5 30	18	Mo.	5 43	6 5	2 26	8 22
5 44	6 3	3 40	6 27	19	Tu.	5 44	6 3	3 38	9 16
5 45	6 1	4 53	7 20	20	We.	5 45	6 1	4 52	10 8
5 46	5 59	sets	7 49	21	Th.	5 46	6 0	sets	10 59
5 47	5 58	7 4	8 40	22	Fri.	5 47	5 58	7 3	11 50
5 48	5 56	7 46	9 33	23	Sa.	5 48	5 56	7 43	12 37
5 49	5 55	8 29	10 25	24	S.	5 49	5 54	8 28	1 32
5 50	5 53	9 16	11 22	25	Mo.	5 50	5 53	9 12	2 26
5 51	5 52	10 6	12 22	26	Tu.	5 51	5 51	10 2	3 20
5 52	5 50	10 58	1 24	27	We.	5 52	5 49	10 54	4 17
5 53	5 48	11 54	2 27	28	Th.	5 53	5 47	11 50	5 16
5 54	5 46	morn	3 28	29	Fri.	5 54	5 46	morn	6 17
5 55	5 44	49	4 23	30	Sa.	5 56	5 44	46	6 54

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.  
Heavy figures, 12 noon to 12 midnight.

9-22

# October, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☾ Full Moon... 5D.	7 H. 58 M.	6 H. 58 M.	5 H. 58 M.
☾ Last Quarter 13D.	4 H. 55 M.	3 H. 55 M.	2 H. 55 M.
☾ New Moon... 20D.	8 H. 40 M.	7 H. 40 M.	6 H. 40 M.
☾ First Quarter 27D.	8 H. 26 M.	7 H. 26 M.	6 H. 26 M.

New York City, Phila., Conn., New Jersey, Pa., O., Ind. and Ill.				DAY OF MONTH	DAY OF WEEK	Boston, New England, New York, Mich., Wis., Iowa and Oregon			
MEAN TIME			Stan. Time			MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon R. & S.	H.W. Boston N. Yd.
5 56	5 43	1 45	5 13	1	S.	5 57	5 42	1 43	7 57
5 57	5 41	2 42	5 41	2	Mo.	5 58	5 40	2 41	8 42
5 58	5 39	3 38	6 22	3	Tu.	5 59	5 39	3 37	9 27
5 59	5 38	4 33	7 0	4	We.	6 0	5 37	4 32	10 7
6 00	5 36	5 30	7 35	5	Th.	6 1	5 35	5 30	10 46
6 01	5 35	rises	8 6	6	Fri.	6 2	5 33	rises	11 25
6 02	5 33	6 39	8 34	7	Sa.	6 3	5 32	6 37	12 3
6 03	5 31	7 13	9 1	8	S.	6 4	5 30	7 10	12 44
6 04	5 30	7 50	9 30	9	Mo.	6 6	5 28	7 47	1 20
6 05	5 28	8 32	10 4	10	Tu.	6 7	5 27	8 28	2 0
6 06	5 27	9 19	10 45	11	We.	6 8	5 25	9 15	2 44
6 07	5 25	10 12	11 34	12	Th.	6 9	5 23	10 8	3 31
6 08	5 23	11 9	12 32	13	Fri.	6 10	5 22	11 6	4 25
6 09	5 22	morn	1 39	14	Sa.	6 11	5 20	morn	5 22
6 10	5 20	11	2 54	15	S.	6 13	5 19	8	6 23
6 11	5 19	1 18	4 4	16	Mo.	6 14	5 17	1 16	6 59
6 12	5 17	2 28	5 8	17	Tu.	6 15	5 15	2 27	7 57
6 13	5 16	3 40	6 6	18	We.	6 16	5 14	3 39	8 52
6 14	5 14	4 52	6 36	19	Th.	6 17	5 12	4 53	9 46
6 15	5 13	6 5	7 28	20	Fri.	6 18	5 11	6 6	10 37
6 16	5 12	sets	8 19	21	Sa.	6 20	5 09	sets	11 29
6 18	5 10	7 4	9 10	22	S.	6 21	5 08	7 1	12 20
6 19	5 09	7 55	10 2	23	Mo.	6 22	5 06	7 51	1 10
6 20	5 07	8 48	10 57	24	Tu.	6 23	5 05	8 44	2 1
6 21	5 06	9 43	11 56	25	We.	6 24	5 03	9 39	2 54
6 22	5 04	10 40	12 57	26	Th.	6 26	5 02	10 37	3 48
6 23	5 03	11 38	1 58	27	Fri.	6 27	5 01	11 35	4 45
6 24	5 01	morn	2 58	28	Sa.	6 28	4 59	morn	5 42
6 26	5 00	35	3 52	29	S.	6 29	4 57	32	6 20
6 27	4 59	1 32	4 40	30	Mo.	6 31	4 56	1 30	7 14
6 29	4 58	2 27	5 25	31	Tu.	6 32	4 55	2 26	8 4

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.  
Heavy figures, 12 noon to 12 midnight.

10-22



# November, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☉ Full Moon... 4d.	1 H. 36 M.	0 H. 36 M.	11 H. 36 M.
☾ Last Quarter. 12d.	2 H. 52 M.	1 H. 52 M.	0 H. 52 M.
☾ New Moon... 18d.	7 H. 6 M.	6 H. 6 M.	5 H. 6 M.
☽ First Quarter. 26d.	3 H. 15 M.	2 H. 15 M.	1 H. 15 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
6 30	4 57	3 23	5 50	1	We.	6 33	4 54	3 23	8 50
6 31	4 56	4 18	6 27	2	Th.	6 34	4 53	4 19	9 33
6 32	4 54	5 15	7 0	3	Fri.	6 36	4 51	5 16	10 15
6 34	4 53	rises	7 30	4	Sa.	6 37	4 50	rises	10 53
6 35	4 52	5 50	7 59	5	S.	6 38	4 49	5 47	11 33
6 36	4 51	6 31	8 27	6	Mo.	6 39	4 48	6 27	12 12
6 37	4 50	7 16	8 59	7	Tu.	6 41	4 47	7 12	12 52
6 38	4 49	8 7	9 36	8	We.	6 42	4 45	8 3	1 33
6 40	4 48	9 2	10 20	9	Th.	6 43	4 44	8 59	2 19
6 41	4 47	10 3	11 10	10	Fri.	6 44	4 43	10 0	3 5
6 42	4 46	11 7	12 8	11	Sa.	6 46	4 42	11 4	4 0
6 43	4 45	morn	1 17	12	S.	6 47	4 41	morn	4 58
6 44	4 44	10	2 30	13	Mo.	6 48	4 40	11	6 0
6 46	4 43	1 21	3 44	14	Tu.	6 49	4 39	1 20	7 1
6 47	4 42	2 30	4 48	15	We.	6 51	4 39	2 30	7 34
6 48	4 41	3 41	5 47	16	Th.	6 52	4 38	3 42	8 31
6 49	4 40	4 52	6 43	17	Fri.	6 53	4 37	4 54	9 25
6 50	4 39	6 3	7 9	18	Sa.	6 54	4 36	6 6	10 18
6 51	4 39	sets	8 0	19	S.	6 56	4 35	sets	11 10
6 53	4 38	6 32	8 50	20	Mo.	6 57	4 34	6 28	11 59
6 54	4 38	7 28	9 40	21	Tu.	6 58	4 34	7 24	12 48
6 55	4 37	8 26	10 32	22	We.	6 59	4 33	8 22	1 38
6 56	4 36	9 24	11 25	23	Th.	7 0	4 32	9 21	2 27
6 57	4 36	10 24	12 21	24	Fr.	7 2	4 32	10 21	3 17
6 58	4 35	11 21	1 20	25	Sa.	7 3	4 31	11 19	4 10
6 59	4 35	morn	2 16	26	S.	7 4	4 31	morn	5 3
7 0	4 35	18	3 10	27	Mo.	7 5	4 30	17	5 59
7 2	4 34	1 13	4 2	28	Tu.	7 6	4 30	1 13	6 53
7 3	4 34	2 10	4 48	29	We.	7 7	4 30	2 10	7 22
7 4	4 34	3 5	5 30	30	Th.	7 8	4 29	3 6	8 11

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

11-22

# December, 1922

MOON'S PHASES	East. Time	Cent. Time	West. Time
☉ Full Moon... 4d.	6 H. 24 M.	5 H. 24 M.	4 H. 24 M.
☾ Last Quarter. 11d.	11 H. 41 M.	10 H. 41 M.	9 H. 41 M.
☾ New Moon... 18d.	7 H. 20 M.	6 H. 20 M.	5 H. 20 M.
☽ First Quarter. 26d.	0 H. 53 M.	11 H. 53 M.	10 H. 53 M.

New York City, Phila.,  
Conn., New Jersey,  
Pa., O., Ind. and Ill.

MEAN TIME			Stan. Time	DAY OF MONTH	DAY OF WEEK	MEAN TIME			Stan. Time
Sun rises	Sun sets	Moon S. & R.	H.W. N.Y. Gv. Isl.			Sun rises	Sun sets	Moon S. & R.	H.W. Boston N. Yd.
7 05	4 34	4 3	6 10	1	Fri.	7 10	4 29	4 5	8 56
7 06	4 33	5 1	6 46	2	Sa.	7 11	4 29	5 4	9 40
7 07	4 33	6 0	7 1	3	S.	7 12	4 28	6 3	10 23
7 08	4 33	rises	7 32	4	Mo.	7 13	4 28	rises	11 4
7 09	4 32	6 1	8 4	5	Tu.	7 14	4 28	5 56	11 45
7 10	4 32	6 57	8 39	6	We.	7 15	4 28	6 53	12 26
7 11	4 32	7 56	9 18	7	Th.	7 16	4 28	7 52	1 10
7 12	4 32	8 59	10 3	8	Fri.	7 17	4 28	8 56	1 56
7 13	4 32	10 4	10 53	9	Sa.	7 17	4 28	10 2	2 46
7 14	4 32	11 11	11 50	10	S.	7 18	4 28	11 10	3 40
7 15	4 32	morn	12 58	11	Mo.	7 19	4 28	morn	4 37
7 15	4 32	18	2 14	12	Tu.	7 20	4 28	18	5 38
7 16	4 33	1 27	3 27	13	We.	7 21	4 28	1 27	6 40
7 16	4 33	2 36	4 34	14	Th.	7 22	4 28	2 37	7 12
7 17	4 33	3 44	5 33	15	Fri.	7 22	4 29	3 47	8 11
7 18	4 33	4 53	6 30	16	Sa.	7 23	4 29	4 56	9 6
7 18	4 33	5 59	6 55	17	S.	7 24	4 29	6 2	10 0
7 19	4 34	sets	7 44	18	Mo.	7 24	4 29	sets	10 51
7 20	4 34	6 9	8 32	19	Tu.	7 25	4 30	6 5	1 41
7 20	4 35	7 8	9 18	20	We.	7 26	4 30	7 4	12 29
7 21	4 35	8 8	10 5	21	Th.	7 26	4 31	8 5	1 15
7 21	4 36	9 6	10 51	22	Fri.	7 26	4 31	9 6	2 0
7 22	4 37	10 6	11 38	23	Sa.	7 27	4 32	10 5	2 47
7 22	4 37	11 2	12 28	24	S.	7 27	4 32	11 2	3 35
7 23	4 38	11 59	1 22	25	Mo.	7 28	4 33	11 59	4 26
7 23	4 39	morn	2 17	26	Tu.	7 28	4 33	morn	5 16
7 23	4 39	54	3 12	27	We.	7 28	4 34	55	6 10
7 23	4 40	1 50	4 5	28	Th.	7 29	4 35	1 52	7 3
7 24	4 40	2 46	4 53	29	Fri.	7 29	4 36	2 49	7 28
7 25	4 41	3 44	5 38	30	Sa.	7 29	4 37	3 47	8 18
7 26	4 42	4 41	6 19	31	S.	7 30	4 37	4 44	9 5

The High Water is for the day; the night H. W. will be 12 h. earlier or later, and L. W. 6 h.

Heavy figures, 12 noon to 12 midnight.

12-22



## Barometer

### A RISING BAROMETER.

- A rapid rise indicates unsettled weather.
- A gradual rise indicates settled weather.
- A rise with dry air and cold increasing in summer indicates wind from the northward; and if rain has fallen, better weather may be expected.
- A rise with moist air and a low temperature indicates wind and rain from the northward.
- A rise with southerly winds indicates fine weather.

### A STEADY BAROMETER.

- With dry air and seasonable temperature indicates a continuance of very fine weather.

### A FALLING BAROMETER.

- A rapid fall indicates stormy weather.
- A rapid fall with a westerly wind indicates stormy weather from the northward.
- A fall with a northerly wind indicates storm, with rain and hail in summer, and snow in winter.
- A fall with increased moisture in the air, and heat increasing, indicates wind and rain from the southward.
- A fall with dry air and cold increasing in winter indicates snow.
- A fall after very calm and warm weather indicates rain with squally weather.

## To Tell Time of Tide

The time of high water at the places following may be found approximately for each day by adding or subtracting from the time of high water at New-York the hours and minutes annexed.

	H. M.		H. M.
Albany, N. Y.....	+ 9.31	New Bedford, Mass..	+ 0.10
Annapolis, Md.....	+ 8.57	Newburyport, Mass..	+ 3.29
Asbury Park, N. J.....	- 0.37	New Haven, Conn. ..	+ 3.1
Atlantic City, N. J.....	- 0.29	New London, Conn..	+ 1.22
Baltimore, Md.....	+ 10.52	Newport, R. I.....	- 0.22
Bar Harbor, Me.....	+ 2.50	Norfolk, Va.....	+ 0.56
Beaufort, S. C.....	- 0.9	Norwich, Conn.....	+ 2.5
Block Island, R. I. ..	- 0.34	Ocean Grove, N. J....	- 0.37
Boston, Mass.....	+ 3.22	Old P. Comfort, Va..	+ 0.37
Bridgeport, Conn.....	+ 3.4	Philadelphia, Pa.....	+ 5.37
Bristol, R. I.....	- 0.12	Plymouth, Mass.....	+ 3.12
Brooklyn Navy Yard.	+ 0.40	Point Lookout, Md. .	+ 4.49
Cape May, N. J.....	+ 0.12	Portland, Me.....	+ 3.10
Charleston, S. C.....	- 0.43	Portsmouth, N. H....	+ 3.16
City Island, N. Y.....	+ 3.2	Poughkeepsie, N. Y. +	4.27
Coney Island, N. Y... -	0.20	Providence, R. I.....	+ 0.7
Eastport, Me.....	+ 3.1	Richmond, Va. ....	+ 8.47
Fernandina, Fla. ....	- 0.19	Rockaway, N. Y.....	- 0.28
Glen Cove, L. I.....	+ 3.1	Rockland, Me.....	+ 2.55
Gloucester, Mass.....	+ 2.57	Rockport, Mass.....	+ 2.50
Hell Gate Ferry, East		Salem, Mass.....	+ 3.5
River, N. Y.....	+ 1.53	Sandy Hook, N. J....	- 0.32
Isle of Shoals .....	+ 3.11	Savannah, Ga.....	+ 0.20
Jacksonville, Fla....	+ 0.36	Southport (Smithville),	
Key West, Fla.....	+ 0.55	N. C.....	- 0.43
League Island, Pa... +	5.12	Stamford, Conn.....	+ 2.59
Long Branch, N. J....	- 0.38	Vineyard Haven, Mass. +	3.35
Marblehead, Mass... +	3.4	Washington, D. C. ...	+ 11.54
Nahant, Mass.....	+ 3.2	Watch Hill, R. I. ...	+ 0.53
Nantucket, Mass.....	+ 4.31	West Point, N. Y. ...	+ 2.55
Newark, N. J. ....	+ 0.54	Wilmington, N. C....	+ 0.59



## Interest Tables

4%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	0	0	0	5	45
8 "	0	0	0	0	0	0	0	0	1	1	9	89
12 "	0	0	0	0	0	1	1	1	1	2	14	1.34
16 "	0	0	0	0	1	1	1	2	2	2	18	1.78
20 "	0	0	0	1	1	2	2	2	2	2	22	2.22
24 "	0	0	1	1	2	2	2	2	3	3	27	2.67
28 "	0	0	1	1	2	2	2	3	3	3	31	3.11
1 MO.	0	0	1	2	2	2	3	3	3	4	34	3.34
2 "	0	2	2	3	4	4	5	6	6	7	67	6.67
3 "	1	2	3	4	5	6	7	8	9	10	1.00	10.00
6 "	2	4	6	8	10	12	14	16	18	20	2.00	20.00
1 YR.	4	8	12	16	20	24	28	32	36	40	4.00	40.00

5%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	0	0	0	6	56
8 "	0	0	0	0	0	0	1	1	1	1	11	1.11
12 "	0	0	0	0	1	1	1	2	2	2	17	1.67
16 "	0	0	0	1	1	2	2	2	2	2	22	2.22
20 "	0	0	1	1	2	2	2	2	3	3	28	2.74
24 "	0	0	1	2	2	2	3	3	3	4	34	3.34
28 "	0	1	1	2	2	3	3	3	4	4	39	3.84
1 MO.	0	1	2	2	2	3	3	4	4	4	42	4.17
2 "	1	2	3	4	4	5	6	7	8	9	84	8.34
3 "	2	3	4	5	6	7	9	10	11	13	1.25	12.50
6 "	3	5	8	10	13	15	18	20	23	25	2.50	25.00
1 YR.	5	10	15	20	25	30	35	40	45	50	5.00	50.00

6%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	1	1	1	7	67
8 "	0	0	0	1	1	1	1	1	1	1	13	1.33
12 "	0	0	1	1	1	1	1	2	2	2	20	2.00
16 "	0	1	1	1	1	2	2	2	2	3	27	2.67
20 "	1	1	1	2	2	2	2	3	3	3	33	3.33
24 "	1	1	1	2	2	2	3	3	4	4	40	4.00
1 MO.	1	1	2	2	3	3	4	4	5	5	50	5.00
2 "	1	2	3	4	5	6	7	8	9	10	1.00	10.00
3 "	2	3	5	6	8	9	11	12	14	15	1.50	15.00
6 "	3	6	9	12	15	18	21	24	27	30	3.00	30.00
1 YR.	6	12	18	24	30	36	42	48	54	60	6.00	60.00

## Rules for Computing Interest

The following will be found to be excellent rules for finding the interest on any principal for any number of days. When the principal contains cents, point off four places from the right of the result to express the interest in dollars and cents. When the principal contains dollars only, point off two places.

Four per Cent.—Multiply the principal by the number of days to run, and divide by 90.

Five per Cent.—Multiply by number of days, and divide by 72.

Six per Cent.—Multiply by number of days, and divide by 60.

Seven per Cent.—Multiply by number of days, and divide by 52.

Eight per Cent.—Multiply by number of days, and divide by 45.

Nine per Cent.—Multiply by number of days, and divide by 40.

Ten per Cent.—Multiply by number of days, and divide by 36.

Twelve per Cent.—Multiply by number of days, and divide by 30.

Fifteen per Cent.—Multiply by number of days, and divide by 24.

Eighteen per Cent.—Multiply by number of days, and divide by 20.

Twenty per Cent.—Multiply by number of days, and divide by 18.

Twenty-four per Cent.—Multiply by number of days, and divide by 15.



## Rate of Income on Stocks

Purchased at the following prices (par value being \$100), and bearing interest at the following rates:

Paid.	3%	4%	5%	6%	7%	8%	9%
\$50	6.00	8.00	10.00	12.00	14.00	16.00	18.00
55	5.45	7.27	9.09	10.90	12.72	14.55	16.36
60	5.00	6.67	8.33	10.00	11.66	13.33	15.00
65	4.62	6.15	7.69	9.23	10.76	12.30	13.85
70	4.28	5.71	7.14	8.57	10.00	11.42	12.85
75	4.00	5.33	6.66	8.00	9.33	10.66	12.00
80	3.75	5.00	6.25	7.50	8.75	10.00	11.25
85	3.53	4.70	5.88	7.05	8.23	9.41	10.58
90	3.33	4.44	5.55	6.66	7.77	8.88	10.00
91	3.30	4.40	5.49	6.59	7.69	8.79	9.89
92	3.26	4.34	5.43	6.52	7.60	8.70	9.78
93	3.23	4.30	5.38	6.45	7.53	8.60	9.68
94	3.19	4.26	5.32	6.38	7.45	8.51	9.57
95	3.15	4.21	5.26	6.31	7.36	8.42	9.47
96	3.13	4.17	5.21	6.25	7.29	8.33	9.38
97	3.09	4.12	5.15	6.18	7.22	8.25	9.28
98	3.06	4.08	5.10	6.12	7.14	8.16	9.18
99	3.03	4.04	5.05	6.06	7.07	8.08	9.09
101	2.97	3.96	4.95	5.94	6.93	7.92	8.91
102	2.94	3.92	4.90	5.88	6.86	7.84	8.82
103	2.91	3.88	4.85	5.83	6.80	7.77	8.74
104	2.88	3.85	4.81	5.77	6.73	7.69	8.65
105	2.86	3.80	4.76	5.71	6.66	7.61	8.57
106	2.83	3.77	4.72	5.66	6.60	7.55	8.49
107	2.80	3.74	4.67	5.61	6.54	7.48	8.41
108	2.78	3.70	4.63	5.56	6.48	7.41	8.33
109	2.75	3.67	4.59	5.50	6.42	7.34	8.26
110	2.72	3.63	4.54	5.45	6.36	7.27	8.18
120	2.50	3.33	4.16	5.00	5.83	6.66	7.50

## Weekly Table of Wages

Week	1 hour	2 hours	3 hours	4 hours	5 hours	6 hours	1 day	2 days	3 days	4 days	5 days	6 days
\$1.50	3	6	9	11	14	17	25	50	75	1.00	1.25	1.50
2.00	4	7	11	15	19	22	33	67	1.00	1.33	1.67	2.00
3.00	6	11	17	22	28	33	50	1.00	1.50	2.00	2.50	3.00
4.00	7	15	22	30	37	44	67	1.00	2.00	2.67	3.33	4.00
5.00	9	19	28	37	46	56	83	1.00	2.50	3.50	4.50	5.00
6.00	11	22	33	44	56	67	1.00	2.00	3.00	4.00	5.00	6.00
7.00	13	26	39	52	65	78	1.17	2.33	3.50	4.67	5.83	7.00
8.00	15	30	44	59	74	89	1.33	2.67	4.00	5.33	6.67	8.00
9.00	17	33	50	67	83	1.00	1.50	3.00	4.50	6.00	7.50	9.00
10.00	19	37	56	74	92	1.11	1.67	3.33	5.00	6.67	8.33	10.00
11.00	20	41	61	81	1.02	1.22	1.83	3.67	5.50	7.33	9.17	11.00
12.00	22	44	67	89	1.11	1.33	2.00	4.00	6.00	8.00	10.00	12.00
13.00	24	48	72	96	1.20	1.44	2.17	4.33	6.50	8.67	10.83	13.00
14.00	26	52	78	1.04	1.30	1.56	2.33	4.67	7.00	9.33	11.67	14.00
15.00	28	56	83	1.11	1.39	1.67	2.50	5.00	7.50	10.00	12.50	15.00
16.00	30	59	89	1.19	1.48	1.78	2.67	5.34	8.00	10.67	13.34	16.00
17.00	31	63	94	1.26	1.57	1.89	2.83	5.67	8.50	11.33	14.17	17.00
18.00	33	67	1.00	1.33	1.67	2.00	3.00	6.00	9.00	12.00	15.00	18.00

This Table is based upon the usual calculation of 9 hours to a day.



## Weights = Measures

**MEASURES OF WEIGHT.**—*Avoirdupois*: 1 pound equals 7000 grains; 16 drams, 1 ounce; 16 ounces, 1 pound; 112 pounds, 1 hundredweight; 20 hundredweight, 1 ton. *Troy*: 1 pound equals 5760 grains; 24 grains, 1 pennyweight; 20 pennyweights, 1 ounce; 12 ounces, 1 pound. *Apothecaries'*: 1 pound equals 5760 grains; 20 grains, 1 scruple; 3 scruples, 1 dram; 8 drams, 1 ounce; 12 ounces, 1 pound. *Metric*: 1 kilogramme equals 1000 grammes, equals 2.2 Avoirdupois pounds.

**MEASURES OF LENGTH.**—*Customary*: 12 inches equal 1 foot; 16½ feet, 1 rod; 40 rods, 1 furlong; 8 furlongs, 1 statute mile; 1 statute mile, 5280 feet or 1760 yards; 1 marine league, 3 nautical miles; 1 fathom, 6 feet; 1 nautical mile equals 6080.2 feet. *Metric*: 1000 millimetres equal 1 metre; 1000 metres, 1 kilometre; 1 metre equals 39.37 inches.

**SURFACE OR SQUARE MEASURE.**—*Customary*: 144 square inches equal 1 square foot; 9 square feet, 1 square yard; 30.25 square yards, 1 square rod; 40 square rods, 1 square rood; 4 square roods, 1 acre; 640 acres, 1 square mile; 1 acre equals 208.7 feet square. *Metric*: 1 square metre equals 10.764 square feet; 100 square metres equal 1 are; 1 hectare equals 100 ares, or 2.471 acres.

**SOLID OR CUBIC MEASURE.**—*Customary*: 1728 cubic inches equal 1 cubic foot; 27 cubic feet, 1 cubic yard; 40 cubic feet of round timber, 1 ton; 50 cubic feet of hewn timber, 1 ton; 128 cubic feet of wood (4 feet by 4 feet by 8 feet), 1 cord; 24.75 cubic feet of stone, 1 perch—usually 16½ feet by 1½ feet by 1 foot, but varies greatly. *Metric*: 1000 cubic centimetres equal 1 litre; 1 litre equals 1.0567 quarts.

**LIQUID MEASURE.**—English gallon equals 277.274 cubic inches, or 1.20032 U. S. gallons; 4 gills, 1 pint; 2 pints, 1 quart; 4 quarts, 1 gallon.

**DRY MEASURE.**—1 bushel equals 2150.42 cubic inches; 2 pints, 1 quart; 4 quarts, 1 gallon; 2 gallons, 1 peck; 4 pecks, 1 bushel. *Metric*: 10 millilitres equal 1 centilitre; 10 centilitres, 1 decilitre; 10 decilitres, 1 litre; 1 litre, 0.908 dry quart.

### CAPACITY OF BOXES.

25 in. sq.,	11.66 in. deep=	Approx. 1 wine barrel.
20 " " 9.10 " "	" = "	1 wine half barrel.
17 " x 14 in. 9.00 " "	" = "	1 bushel.
10 " x 12 " 9.00 " "	" = "	½ "
8 " sq., 8.40 " "	" = "	1 peck.
8 " " 4.20 " "	" = "	1 gal. (dry measure).
7 " diam., 6.00 " "	" = "	1 gal. (liquid measure).

## The Metric System

The Metric System of Weights and Measures has been legalized by act of Congress, July 18, 1896.

**METRIC WEIGHTS.**—10 milligrams make 1 centigram, 10 centigrams 1 decigram, 10 decigrams 1 gram, 10 grams 1 dekagram, 10 dekagrams 1 hektogram, 10 hektograms 1 kilogram, 1,000 kilograms 1 metric ton.

**METRIC MEASURES.**—(One milliliter equals cubic centimeter.) 10 milliliters make 1 centiliter, 10 centiliters 1 deciliter, 10 deciliters 1 liter, 10 liters 1 dekaliter, 10 dekaliters 1 hektoliter, 10 hektoliters 1 kiloliter.

**METRIC LENGTHS.**—10 millimeters make 1 centimeter, 10 centimeters 1 decimeter, 10 decimeters 1 meter, 10 meters 1 dekameter, 10 dekameters 1 hektometer, 10 hektometers 1 kilometer.

### APPROXIMATE EQUIVALENTS.

A meter is about a yard; a kilo is about 2 pounds; a liter is about a quart; a centimeter is about ½ inch; a metric ton is about same as an ordinary ton; a kilometer is about ⅙ mile; a cubic centimeter is about a thimbleful. A nickel five-cent piece of our coinage is a handy key to metric measures and weights. It is two centimeters in diameter and weighs five grams.

### PRECISE EQUIVALENTS.

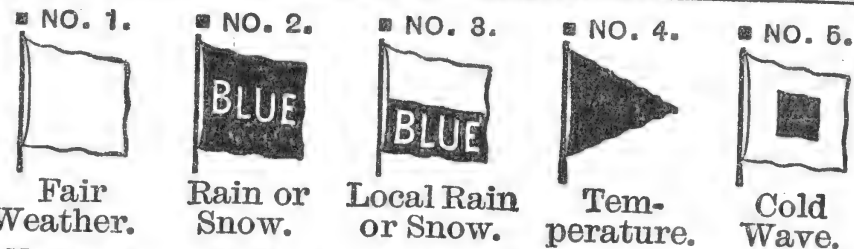
1 acre equals .4047 hectar; 1 bushel, 35.24 liters; 1 centimeter .3937 inch; 1 cubic centimeter, .0610 cubic inch; 1 cubic foot, .0283 cubic meter; 1 cubic inch, 16.39 cubic cent.; 1 cubic meter, 35.31 cubic feet; 1 cubic meter, 1.308 cubic yards; 1 cubic yard, .7645 cubic meter; 1 foot, 30.48 centimeters; 1 gallon, 3.785 liters; 1 grain, .0648 gram; 1 gram, 15.43 grains; 1 hectar, 2.471 acres; 1 inch, 25.40 millimeters; 1 kilogram, 2.20 pounds; 1 kilometer, .6214 mile; 1 liter, .9081 quart (dry); 1 liter, 1.057 quart (liquid); 1 meter, 3.281 feet; 1 mile, 1.609 kilometers; 1 millimeter, .0394 inch; 1 ounce (avd.), 28.35 grams; 1 ounce (Troy), 31.10 grams; 1 peck, 8.809 liters; 1 pint, .4732 liter; 1 pound, .4536 kilogram; 1 quart (dry), 1.101 liters; 1 quart (liquid), .9464 liter; 1 sq. centimeter, .1550 sq. inch; 1 sq. foot, .0927 sq. meter; 1 sq. inch, 6.452 sq. cent.; 1 sq. meter, 1.196 sq. yards; 1 sq. meter, 10.76 sq. feet; 1 sq. yard, .8361 sq. meter; 1 ton (2,000 lbs.), .9072 metric ton; 1 ton (2,240 lbs.), 1.017 metric ton; 1 ton (metric), 1.102 ton (2,000 lbs.); 1 ton (metric), 2.205 ton (2,240 lbs.); 1 yard, .9144 meter.



## Presidents

Names.	Born.	Inaugurated.	In Office.	Died.	Native
George Washington.	Feb. 22, 1732	Apr. 30, 1789	8 years.	Dec. 14, 1799	Va.
John Adams.	Oct. 30, 1735	Mar. 4, 1797	4 " "	July 4, 1826	Mass.
Thomas Jefferson.	Apr. 2, 1743	" 4, 1801	8 " "	July 4, 1826	Va.
James Madison.	Mar. 16, 1751	" 4, 1809	8 " "	Jun. 28, 1836	"
James Monroe.	Apr. 2, 1759	" 4, 1817	8 " "	July 4, 1831	"
John Quincy Adams.	July 11, 1767	" 4, 1825	8 " "	Feb. 23, 1848	Mass.
Andrew Jackson.	Mar. 15, 1767	" 4, 1829	8 " "	Jun. 8, 1845	S. C.
Martin Van Buren.	Dec. 5, 1782	" 4, 1837	4 " "	Dec. 27, 1862	N. Y.
William H. Harrison.	Feb. 9, 1773	" 4, 1841	1 month.	Apr. 4, 1841	Va.
John Tyler.	Mar. 20, 1790	Apr. 5, 1841	3 yrs. 11 m.	Jan. 17, 1862	"
James K. Polk.	Nov. 2, 1795	Mar. 4, 1845	4 years.	Jun. 15, 1849	N. C.
Zachary Taylor.	Nov. 24, 1790	" 4, 1849	1 yr. 4 m.	July 9, 1850	Va.
Millard Fillmore.	May 7, 1800	July 10, 1850	2 yrs. 8 m.	Mar. 8, 1874	N. Y.
Franklin Pierce.	Nov. 23, 1804	Mar. 4, 1853	4 years.	Oct. 8, 1869	N. H.
James Buchanan.	Apr. 23, 1791	" 4, 1857	4 " "	Jun. 1, 1868	Pa.
Abraham Lincoln.	Feb. 12, 1809	" 4, 1861	4 yrs. 40 d.	Apr. 15, 1865	Ky.
Andrew Johnson.	Dec. 29, 1808	Apr. 15, 1865	3 yrs. 11 m.	July 31, 1875	N. C.
Ulysses S. Grant.	Apr. 27, 1822	Mar. 4, 1869	8 years.	July 23, 1885	Ohio.
Rutherford B. Hayes.	Oct. 4, 1822	" 5, 1877	4 " "	Jan. 17, 1893	"
James A. Garfield.	Nov. 19, 1831	" 4, 1881	6 m. 15 d.	Sep. 19, 1881	"
Chester A. Arthur.	Oct. 5, 1830	Sep. 19, 1881	3 yrs. 5 m.	Nov. 18, 1886	Vt.
Grover Cleveland.	Mar. 18, 1837	Mar. 4, 1885	4 years.	Jun. 24, 1908	N. J.
Benjamin Harrison.	Aug. 20, 1833	" 4, 1889	4 " "	Mar. 13, 1901	Ohio.
Grover Cleveland.	Mar. 18, 1837	" 4, 1893	4 " "	Jun. 24, 1908	N. J.
William McKinley.	Jan. 29, 1843	" 4, 1897	4 yrs. 6 m.	Sep. 14, 1901	Ohio.
Theodore Roosevelt.	Oct. 27, 1858	Sep. 14, 1901	7 " "	Jan. 6, 1919	N. Y.
William H. Taft.	Sep. 15, 1857	Mar. 4, 1909	4 " "	" " " "	Ohio.
Woodrow Wilson.	Dec. 28, 1856	" 4, 1913	8 " "	" " " "	Va.
Warren G. Harding.	Nov. 2, 1865	" 4, 1921	" " " "	" " " "	Ohio.

## Weather Signals



No. 1, alone, indicates fair weather, stationary temperature.

No. 2, alone, indicates rain or snow, stationary temperature.

No. 3, alone, indicates local rain or snow, stationary temperature.

No. 1, with No. 4 above it, indicates fair weather, warmer.

No. 1, with No. 4 below it, indicates fair weather, colder.

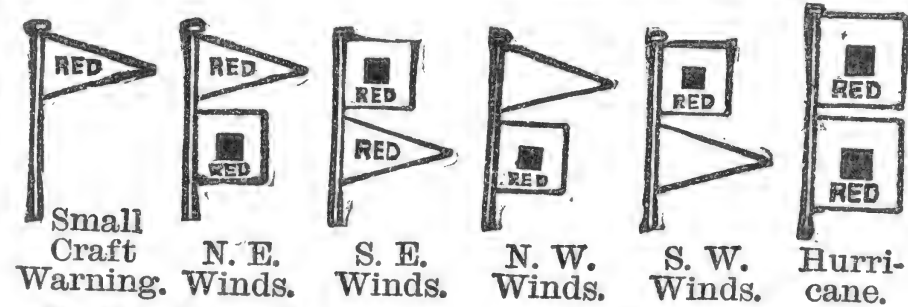
No. 2, with No. 4 above it, indicates rain or snow, warmer.

No. 2, with No. 4 below it, indicates rain or snow, colder.

No. 3, with No. 4 above it, indicates local rain or snow, warmer.

No. 3, with No. 4 below it, indicates local rain or snow, colder.

### SMALL CRAFT, STORM AND HURRICANE WARNINGS.



SMALL CRAFT WARNING.—A red pennant indicates that moderately strong winds are expected.

STORM WARNINGS.—A red flag with a black center indicates a storm of marked violence. The pennants displayed with flags indicate direction of wind—red, easterly; white, westerly; pennant above flag indicates wind from northerly quadrants; below, from southerly quadrants. By night a red light indicates easterly winds, white light below red, westerly winds. Two red flags with black centers indicate approach of tropical hurricanes.

No night small craft or hurricane signals are displayed



## Principal Cities

CITIES	Popula- tion 1920	CITIES	Popula- tion 1920
New York, N. Y..	5,620,048	Dallas, Tex.....	158,976
Chicago, Ill.....	2,701,705	Dayton, Ohio.....	152,559
Philadelphia, Pa..	1,823,158	Bridgeport, Conn	143,538
Detroit, Mich....	993,739	Houston, Tex....	138,076
Cleveland, O.....	796,836	Hartford, Conn..	138,036
St. Louis, Mo....	772,897	Scranton, Pa.....	137,783
Boston, Mass....	748,060	Gr. Rapids, Mich.	137,634
Baltimore, Md....	733,826	Paterson, N. J....	135,866
Pittsburgh, Pa...	588,193	Youngstown, O...	132,358
Los Angeles, Cal.	576,073	Springfield, Mass.	129,563
Buffalo, N. Y....	506,775	Des Moines, Iowa	126,468
S. Francisco, Cal.	508,410	N. Bedford, Mass.	121,217
Milwaukee, Wis...	457,147	Fall River, Mass..	120,485
Washington, D.C.	437,571	Trenton, N. J....	119,289
Newark, N. J....	414,216	Nashville, Tenn..	118,342
Cincinnati, O....	401,247	Salt Lake City, U.	118,110
New Orleans, La..	387,219	Camden, N. J....	116,309
Min'apolis, Minn.	380,582	Norfolk, Va.....	115,777
Kansas City, Mo.	324,410	Albany, N. Y....	113,344
Seattle, Wash....	315,652	Lowell, Mass....	112,759
Indianapolis, Ind.	314,194	Wilmington, Del..	110,168
Jersey City, N. J.	297,864	Cambridge, Mass.	109,694
Rochester, N. Y...	295,750	Reading, Pa.....	107,784
Portland, Ore....	258,288	Fort Worth, Tex..	106,482
Denver, Colo....	256,369	Spokane, Wash...	104,437
Toledo, Ohio.....	243,109	Kansas City, K...	101,177
Providence, R. I..	237,595	Yonkers, N. Y....	100,226
Columbus, Ohio...	237,031	Lynn, Mass.....	99,148
Louisville, Ky....	234,891	Duluth, Minn....	98,917
St. Paul, Minn...	234,595	Tacoma, Wash...	96,965
Oakland, Cal....	216,361	Elizabeth, N. J...	95,682
Akron, Ohio.....	208,435	Lawrence, Mass..	94,270
Atlanta, Ga.....	200,616	Utica, N. Y.....	94,156
Omaha, Neb.....	191,601	Erie, Pa.....	93,372
Worcester, Mass..	179,754	Somerville, Mass.	93,091
Birmingham, Ala.	178,270	Flint, Mich.....	91,599
Syracuse, N. Y...	171,717	Jacksonville, Fla..	91,558
Richmond, Va....	171,667	Waterbury, Conn.	91,410
N. Haven, Conn..	162,519	Okla. City, Okla..	91,258
Memphis, Tenn...	162,351	Schenectady, N. Y.	88,723
San Antonio, Tex.	161,379	Canton, Ohio.....	87,091

## Foreign Coins

### COMPARATIVE EXCHANGE VALUES.

U. S. A.	England	France Belgium Switz'l'd	Germany	Italy	Holland Austria	Spain	Japan
\$ Cts.	£ s. d.	Fr. C.	Mks. Pf.	Lira C.	Fl. C.	Peso. C.	Yen Sen
01	1-2	5	4	5	2 1-2	5	2
02	1	10	8	10	5	10	4
06	3	31	25	31	15		12
10	5	52	42	52	24	50	20
20	10	00	85	00	48	1 00	40
24	0	25	0	25	60	5 00	48
97	0 0	00	8	00	2 40		94
22	0 0	25	10	25	3 00		44
95	0 0	00	16	00	4 80		90
43	0 0	10	21	50	6 00	20	86
89	0 0	20	32	00	9 60		78
38	0 0	22	36	50	10 80		76
4	0 0	25	42	00	12 00	25	72
4	1			25			9

INDIA UNIT, rupee of 16 annas. 1 rupee equals 1s. 4d., or 33 cents, U. S. A.

CEYLON UNIT, rupee of 100 cents. 1 rupee equals 1s. 4d., or 33 cents, U. S. A.

EGYPT UNIT, piastre of 40 paras. 100 piastres equals £1 English, £1 Egyptian, or \$4.86 U. S. A.

CHINA - Here the Mexican dollar is in common use; it is worth about 2s. 1d., or 50 cents U. S. A.



## Help in Case of Accidents

**DROWNING.**—1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach, and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils, and pressing the "Adam's apple" back (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after **HOURS** of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give **WARM** drinks, or spirits in teaspoonfuls, fresh air, and quiet.

**SUNSTROKE.**—There are two important indications for treatment—reduction of temperature and the use of stimulants. The patient should first be removed to a cooler spot if possible, or at least where shade can be secured. The treatment should be begun at once. The clothing about the neck and body must be either loosened or removed. Cold is particularly indicated in cases where there is great heat of the body, and delirium and convulsive movements are present. This means of reducing the temperature may be applied in the shape of cracked ice about the head and spine, or the use of cold water. If the heat of the body is very great, it may be necessary to wrap the patient in sheets wet with cold water. If there is, besides the great heat, evidence of serious depression, stimulants must be used while the cold is being applied.

**HÆMORRHAGE.**—The usual treatment is rest in the recumbent position; small pieces of ice should be freely swallowed, and the application of ice wrapped in a towel or in an ice-bag, or snow, cold water, etc., over the stomach; hot applications may be applied to the extremities.

**FIRE IN A BUILDING.**—Crawl on the floor. The clearest air is the lowest in the room. Cover head with woolen wrap, wet if possible. Cut holes for the eyes. *Don't get excited.*

## Help in Case of Accidents

**BURNS AND SCALDS.**—Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive oil or linseed oil, plain, or mixed with chalk or whiting. Sweet or olive oil and lime-water. Shock, which is always present in severe burns, requires the administration of stimulants. Pain is more constant and intense in burns than in any other form of injury, and requires sedatives, which should be administered by the medical attendant. Later on the appearances of inflammation and other complications are to be carefully watched for.

**SUFFOCATION FROM INHALING ILLUMINATING GAS.**—Get into the fresh air as soon as possible and lie down. Keep warm. Take ammonia—twenty drops to a tumbler of water, at frequent intervals; also, two to four drops tincture of nux vomica every hour or two for five or six hours.

**TESTS OF DEATH.**—Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead, the hole will remain; if alive, it will close up. Place fingers in front of a strong light. If alive, they will appear red; if dead, black or dark.

**MAD DOG OR SNAKE-BITE.**—Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife. Give stimulants, as whisky, brandy, etc.

**FIRE IN ONE'S CLOTHING.**—*Don't run*—especially not downstairs or out-of-doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

**FIRE FROM KEROSENE.**—*Don't use water*, it will spread the flames. Dirt, sand, or flour is the best extinguisher, or smother with woolen rug, table-cloth, or carpet.

**CINDERS IN THE EYE.**—Roll soft paper up like a lamp lighter, and wet the tip to remove, or use a medicine dropper to draw it out. Rub the *other* eye.

**FAINTING.**—Place flat on back; allow fresh air, and sprinkle with water. Place head lower than rest of body.

**STINGS OF VENOMOUS INSECTS, ETC.**—Apply weak ammonia, oil, salt water, or iodine.

**LIGHTNING.**—Dash cold water over a person struck.



## Poisons and Antidotes

**FIRST.**—Send for a physician.

**SECOND.**—INDUCE VOMITING, by tickling throat with feather or finger. Drink hot water or strong mustard and water. Swallow sweet oil or whites of eggs.

*Acids are antidotes for alkalis, and vice versa.*

**ACIDS, MINERAL.**—Chalk, magnesia (plaster off wall in emergency), solution carbonate of soda, emollient drinks, fixed oils.

**ACID, CARBOLIC.**—Any soluble sulphate, such as magnesia.

**ACID, HYDROCYANIC.**—Fresh air and artificial respiration, with cold effusion. Ammonia by inhalation and intravenously in vein of leg.

**ACONITE.**—Emetics, stimulants, external and internal. keep up external heat, keep flat on back.

**ANTIMONY TART.**—Vegetable acids, such as tannic acid, catechu.

**ARSENIC.**—Freshly precipitated hydrated sesquioxide of iron made by adding magnesia to any iron solution.

**ATROPIA.**—Same as Belladonna.

**BELLADONNA.**—Emetics—mustard flour in water; give physostigma or pilocarpine; cold to head.

**CANTHARIDES.**—Emetics, emollient drinks, opiates by mouth and rectum, large draughts of water to flush kidneys.

**CHLORINE WATER.**—Albumen, white of egg, milk, flour.

**CHLOROFORM.**—Fresh air, artificial respiration (inclining head down, pull tongue forward), brandy and ammonia intravenously in leg, the HYPODERMIC injection of 15 m. tincture of digitalis and 1-60 of a grain of atropine.

**COLCHICUM.**—Emetics, followed by demulcent drinks. If coma be present brandy, ammonia, coffee. Opium in large dose. Keep up external heat.

**CONIUM.**—Emetics, followed by stimulants external and internal.

**CORROSIVE SUBLIMATE.**—Albumen, white of egg (4 gr. sublimate require white of one egg), flour milk. Equal parts of lime water and milk. Emetics, or evacuate stomach by pump.

## Poisons and Antidotes

**COPPER SULPH.**—Yellow prussiate of potash or soap.

**CROTON OIL.**—Emetics; wash out stomach, followed by mucilaginous fluids, containing opium.

**DIGITALIS.**—Recumbent posture after emetics. Emetics and opium; give tincture aconite.

**ELATERIUM.**—Demulcent drinks, enemata of opium, and external heat.

**HYOSCYAMUS.**—Stomach pump, emetics, stimulants external and internal, physostigma and pilocarpine.

**ILLUMINATING GAS.**—Hypodermic injections of nitroglycerin are recommended by Kloman, of Baltimore.

**IODINE.**—Emetics and demulcent drinks, starch or flour diffused in water, opium and external heat.

**LEAD SALTS.**—Any soluble sulphate, either magnesia or soda, succeeded by emetics, and afterwards by opium and milk.

**LOBELLA.**—Stimulants externally and internally; external heat.

**MORPHINE.**—Same as opium.

**NUX VOMICA.**—30 grs. of chloral and 60 grs. of bromide of potash. Nitrite of amyl.

**OPIUM.**—Atropine hypodermically till respirations number 8 per minute. Stomach pump, stimulants, external and internal, brandy and coffee, cold affusion, ammonia to nostrils, galvanic shocks, compelling to move about, artificial respiration, electric brush. Permanganate of Potash.

**OXALIC ACID.**—Lime, not potash or soda.

**PHOSPHORUS.**—Sulphate of copper in emetic dose as chemical antidote. No oils. Emetics and purgatives.

**POTASH AND SODA SALTS.**—Dilute acetic acid, citric acid, lemon juice, fixed oils, demulcents, vinegar.

**SILVER NITRATE.**—Solution of common salt and demulcent drinks. Emetics.

**STRAMONIUM.**—Same as Belladonna.

**STRYCHNINE.**—Same as Nux Vomica.

**TOBACCO.**—Emetic, stimulants, external and internal, strychnine, external heat.

**ZINC SALTS.**—Carbonate of soda, emetics, warm demulcent drinks.



# Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....

My Weight on .....lbs.

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....

.....

In case of accident notify

.....

.....

WED. APRIL 19, 1922

Ther.

7 of Colombian Trip  
22 with P.W. Pennell  
Mrs. Pennell.

THURSDAY 20

Ther.

FRIDAY 21

Ther.

Washington 5 PM.  
night at Baltimore





No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....her.

My Weight on .....

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....her.

.....

In case of accident notify

.....

.....

W. a. WED. APRIL 19, 1922 Ther.

of Colombian Trip  
22 with J.W. Pennell  
Mrs. Pennell.

W. THURSDAY 20 Ther.

W. FRIDAY 21 Ther.

Washington 5 P.M.  
night at Baltimore





## Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....her.

My Weight on .....B

Height.....S

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....her.

.....B

In case of accident notify

.....S

.....

Wea

WED. APRIL 19, 1922

her.

of Colombian Trip  
22 with J.W. Pennell  
Mrs. Pennell.

Wea

THURSDAY 20

her.

Wea

FRIDAY 21

her.

Washington 5 P.M.  
night at Baltimore





Things  
Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....er.

No. of Bicycle .....er.

My Weight on .....

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to .....er.

.....

.....

In case of accident notify

.....

.....

W

WED. APRIL 19, 1922

Ther.

of Colombian Trip  
22 with J.W. Pennell  
Mrs. Pennell.

We

THURSDAY 20

Ther.

We

FRIDAY 21

Ther.

Washington 5 P.M.  
night at Baltimore



## Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book.....

No. of Bicycle.....

My Weight on.....

Height.....

Size of my Hat.....Gloves.....

“ Hosiery.....Collar.....

“ Cuffs.....Shoes.....

“ Drawers.....Shirt.....

This book belongs to

.....

.....

In case of accident notify

.....

.....

Wea.

WED. APRIL 19, 1922

Ther.

7 of Colombian Trip  
22 with P.W. Penneel  
Mrs. Penneel.

Wea.

THURSDAY 20

Ther.

Wea.

FRIDAY 21

Ther.

Washington 5 PM.  
night at Baltimore



# Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....

My Weight on .....

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....

.....

In case of accident notify

.....

.....

her.

Wea.

WED. APRIL 19, 1922

Ther.

of Colombian Trip  
22 with J.W. Pennell  
Mrs. Pennell.

her.

Wea.

THURSDAY 20

Ther.

her.

Wea.

FRIDAY 21

Ther.

Washington 5 P.M.  
night at Baltimore





# Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....

My Weight on .....

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....

.....

In case of accident notify

.....

.....

her.

her.

her.

Wea.

WED. APRIL 19, 1922

Ther.

of Colombian Trip  
22 with J.W. Pennell  
Mrs. Pennell.

Wea.

THURSDAY 20

Ther.

Wea.

FRIDAY 21

Ther.

Leaving for S.P.M.  
night at Baltimore



# Things Easily Forgotten

No. of Watch Case.....

No. of Works.....

No. of Bank Book .....

No. of Bicycle .....

My Weight on .....

Height.....

Size of my Hat.....Gloves .....

" Hosiery .....Collar .....

" Cuffs .....Shoes .....

" Drawers.....Shirt .....

This book belongs to

.....

.....

In case of accident notify

.....

.....

Ther.

Wea. ~~WED. APRIL 19, 1922~~ Ther.

Diary of Columbian Trip  
of 1922 with P.W. Pennell  
and Mrs. Pennell.

Ther.

Wea. THURSDAY 20 Ther.

Ther.

Wea. FRIDAY 21 Ther.

Lft Washington 5 P.M.  
Spent night at Baltimore

Wea.

SAT. APRIL 22, 1922

Ther.

Left Baltimore at 11; arrive  
N.Y. 3:09. Met Papa, saw  
Blue Kitten. Stayed at Park Ave.

Wea.

SUNDAY 23

Ther.

Spent day at Plumming  
with Papa, visiting Hayden  
& Lucases. Night there.

Wea.

MONDAY 24

Ther.

In N.Y. dinner and party  
with Jack Tydesch. Night  
at PP Club.

Wea.

TUES. APRIL 25, 1922

Ther.

Sailed Pier 67 on "Panama"  
at 4 P.M.

Wea.

WEDNESDAY 26

Ther.

Began to get rough at 2 P.M.  
Fairly bad but I didn't  
sweat. Have had  
cold.  
Bridge.                      Mil. 272

Wea.

THURSDAY 27

Ther.

Storm outside about  
noon. Blue sea.  
Bridge.

Mil. 322

off St. Augustine



Wea.

FRI. APRIL 28, 1922

Ther.

Friday - bridge

Wea.

SATURDAY 29

Ther.

Lighted Kaiti about noon,  
Docked at P. an P. at  
8 PM.

Wea.

SUNDAY 30

Ther.

To Port au Prince all  
day. Wild party, sea-  
side Inn & Mt. House  
Hotel & France

Wea.

MON. MAY 1, 1922

Ther.

Caribbean rough

Wea.

TUESDAY 2

Ther.

same

Wea.

WEDNESDAY 3

Ther.

Off Cristobal in our  
sailing at 7:30. Shopped  
in Colon. Sailed 11 AM  
on Huallaga, going thru  
canal. Saw Quezon Hill.

Wea.

THUR. MAY 4, 1922

Ther.

On Huacalaca in Pacific.

Wea.

SUN. MAY 7, 1922

Ther.

Cause about B. Bay  
for orchids. ~~Party~~  
Small party downtown.

Wea.

FRIDAY 5

Ther.

Docked at Buenaventura  
Much hanging around of  
Lining at A. S. Consulate  
(Cable Office)

Wea.

MONDAY 8

Ther.

Again at Corcho

Wea.

SATURDAY 6

Ther.

Bot. at Corcho all  
day.

Wea.

TUESDAY 9

Ther.

In Canoe on lower  
Sagua River.



Wea.

WED. MAY 10, 1922

Ther.

L. Butera at 9 AM.  
 Many candles. Ride  
 on flat car. Train jump  
 back. Night at Laguna.  
 Big party (Caro), Negro with  
 violin strings.

Wea.

THURSDAY 11

Ther.

At Laguna 2 PM. Amba  
 at 4

Wea.

FRIDAY 12

Ther.

Cumbe, changing diets

Wea.

SAT. MAY 13, 1922

Ther.

Do.

Wea.

SUNDAY 14

Ther.

Do. on trip. forest

Wea.

MONDAY 15

Ther.

Diets

Wea.

TUES. MAY 16, 1922

Ther.

Below town. Falls

Wea.

WEDNESDAY 17

Ther.

Long trip to high peak.

Wea.

THURSDAY 18

Ther.

Drives

Wea.

FRI. MAY 19, 1922

Ther.

Sub trop forest.

Wea.

SATURDAY 20

Ther.

drives

Wea.

SUNDAY 21

Ther.

~~drives~~ Sub trop forest



Wea.

MON. MAY 22, 1922

Ther.

Dinner

Wea.

TUESDAY 23

Ther.

Dinner & toward Pava

Wea.

WEDNESDAY 24

Ther.

Dinner

Wea.

THUR. MAY 25, 1922

Ther.

to Coimbra 3 P.M.  
Cali 4:30. Hotel Magenta  
Band concert & show.  
WB "Abanico" - song.

Moore

Wea.

FRIDAY 26

Ther.

80 A.M. - Shopping  
Mammals in P.M.

Wea.

SATURDAY 27

Ther.

Horabach to Duna Flores

Wea.

SUN. MAY 28, 1922

Ther.

Marmelita

Wea.

MONDAY 29

Ther.

Marmelita

Wea.

TUESDAY 30

Ther.

Lt. man. to Amer.

Palmira

train to Cali

Ships -

Wea.

WED. MAY 31, 1922

Ther.

Cali

Wea.

THUR. JUNE 1

Ther.

Cali

Wea.

FRIDAY 2

Ther.

Cali  
train to Guantabana



Wea.

SAT. JUNE 3, 1922

Ther.

Left Cali 7 AM by train for  
Aguahe. A. at noon, lunch,  
heavy rain & spent night.  
Now have 7 mules, mule  
name Jackey.

Wea.

SUNDAY 4

Ther.

Left Aguahe 8 AM. Went very  
slowly, trail wet. Camped near  
Guacani.

Wea.

MONDAY 5

Ther.

Rain in AM. & left camp  
at 11. Slow progress. Too  
much collecting. Night  
at pass of Pishenga.

Wea.

TUES. JUNE 6, 1922

Ther.

Left Pish. 7 AM. rode with  
cavalcade across Rio  
Pindamo and along Carre.  
Met at Rio Cruces by Gov.  
Rojas & "Boalys".

Wea.

WEDNESDAY 7

Ther.

Papayan - plants. Many  
called. Trained in Papayan  
with Rojas - Gov.  
Mario Tragoni & 2 bro.  
Jorge " " & son  
Antonio Garcia

Wea.

THURSDAY 8

Ther.

Suboles	} Carlton
Johnman	
Estuani	
Rosqueras	
Dr. Casey	
Gumbert	
Don Tragoni & family	

Wea.

FRI. JUNE 9, 1922

Ther.

Packing for side trip.

Wea.

SATURDAY 10

Ther.

Left Popayan 9 am by  
wrong road, for Pánuco.  
Had very poor night  
night at San José, Cal.  
of C. Muñoz, 6 PM.

Wea.

SUNDAY 11

Ther.

Left San J. 8 am. guided  
by向导. over 3 hrs to across  
Rio Venado to park grounds  
near Obispo. Then to  
more to Cañon (alt.  
11,200 ft)

Wea.

MON. JUNE 12, 1922

Ther.

Up Popocatepec volcano.  
Very frequent 14,500 feet.  
Cooling & sulphur. 3  
summits.

Wea.

TUESDAY 13

Ther.

Canoa - work west of  
house. Also along  
ditch.

Wea.

WEDNESDAY 14

Ther.

P's left for Palto, leaving  
with me. Worked west  
of house.



Wea.

THUR. JUNE 15, 1922

Ther.

Day. Up trail toward crater.  
P.M. Over many valleys  
to base of San \_\_\_\_\_ n.w. of  
Canyon

Wea.

FRIDAY 16

Ther.

South over many valleys  
to base of San \_\_\_\_\_

Wea.

SATURDAY 17

Ther.

Left C. on foot 8 am. Arr.  
Cocoma 10:30, base of  
San Moquegua, Mayodomo  
Samuel Mina. Up rocks  
about 1000 in pm.

Wea.

SUN. JUNE 18, 1922

Ther.

Left C. on foot 12 m. Rain  
crossed Cancha & up one of  
steeped climbs. Ling with  
mules went to me. Popayan  
3 P.M.

Wea.

MONDAY 19

Ther.

Popayan plants

Wea.

TUESDAY 20

Ther.

60

Wea.

WED. JUNE 21, 1922

Ther.

Do.

Wea.

THURSDAY 22

Ther.

Do.

Wea.

FRIDAY 23

Ther.

Do.

Wea.

SAT. JUNE 24, 1922

Ther.

Do.

Wea.

SUNDAY 25

Ther.

Cathedral Ave.

Refused fight between white & black  
before many people.

Big reception for us at  
Frederick house.

Wea.

MONDAY 26

Ther.

For Sam's

Sn.



Wea.

TUES. JUNE 27, 1922

Ther.

San Antonio - (Ordoñez)

San José (Buena Ventura Delgado)  
3 daughters & son Julio)

Wea.

WEDNESDAY 28

Ther.

Mountains above San  
José

Wea.

THURSDAY 29

Ther.

San José, along divide over  
3 mts. down western  
side to La Gallera (arr.  
4 P.M.)

Wea.

FRI. JUNE 30, 1922

Ther.

La Gallera  
at home (conceit) of Marcos  
Pilor (add. Micay)

chick .25

eggs .104

Wea.

SAT. JULY 1

Ther.

~~La~~ La Gallera 7 am. to San José  
4:30 pm.

Guide 2 days \$1.00

Wea.

SUNDAY 2

Ther.

~~Rest 5:54~~

Pd. Eggs .30

Lft San José 11 am.

El Ramal 5 pm

Genl Alegria home

Wea.

MON. JULY 3, 1922

Ther.

L. El Raval 12:30

Ar. Camp near Rio Honda 5:30 pm.  
 caught football to Luis & Indians

Exp. 30¢  
 Post. 1.40¢

Wea.

TUESDAY 4

Ther.

L. Camp 8 am. Ar. Pop. 10 a.m.  
 Celebration of day at Cauca  
 with Tragarri boys.

Wea.

WEDNESDAY 5

Ther.

✓

Wea.

THUR. JULY 6, 1922

Ther.

Afternoon party with P's.  
 Girls in evening  
 on Julio from 10:30 to 3, dancing  
 & supper.

Wea.

FRIDAY 7

Ther.

✓

Wea.

SATURDAY 8

Ther.

Cauca with Gut. & Sulcey



Wea.

SUN. JULY 9, 1922

Ther.

Bad eye.

Wea.

MONDAY 10

Ther.

Packing

Wea.

TUESDAY 11

Ther.

Packing

Mr. P. serenaded by Don  
Julio Fernandez Medina. He  
gave me a vase for present.  
Supper. Serenade at  
Arbolada house.

Wea.

WED. JULY 12, 1922

Ther.

L. Popayan 8:30 Mule many stops  
Pindamo 5:30  
Quatiboguan 8:00

Wea.

THURSDAY 13

Ther.

L. A. S. 6:30 am.  
Morales 10 am L. 2 P. m.  
Lords near Agache 7 P. m.

Wea.

FRIDAY 14

Ther.

Left camp 9 am. Ar. Agache 11:30  
Train at 2, " Cali 4:00

Wea.

SAT. JULY 15, 1922

Ther.

B Cali - Unpacked  
Lucia di Lammernoor  
Big party till 6 am. Bada clare

Wea.

SUNDAY 16

Ther.

B Cali  
Faint  
Small party

Wea.

MONDAY 17

Ther.

Cali - Packing

Wea.

TUES. JULY 18, 1922

Ther.

Cali - Packing  
Aida

Wea.

WEDNESDAY 19

Ther.

L. Cali boat on Canoa 7:30

Wea.

THURSDAY 20

Ther.

On boat - Bayabal,  
port of El Garzabal, noon.  
Night at



Wea.

FRI. JULY 21, 1922

Ther.

B:

Left 3.7 am. (contingent  
out of town). Explored creek  
country nearby where a few  
ams. Camped along Rio  
Mucos. Auto bad. We have  
used a trail route.

Wea.

SATURDAY 22

Ther.

P

Left camp with mules about  
9 Road straight up, then  
level. Camped along Rio  
Aguarhonita.

Wea.

SUNDAY 23

Ther.

Left camp 7. long level  
mountainous stretch ~~the~~  
mountain to Rio Uruya. Reached  
across, and spent night  
at ~~posadero~~ at

Wea.

MON. JULY 24, 1922

Ther.

Left 7 am. in  
Arrimonia at noon. Hotel  
Continental (rates reasonable  
but look out for special meals.  
Check for plants in pm.  
Band in song for 10 pm.  
Lunch & alcohol.

Wea.

TUESDAY 25

Ther.

Left Arrimonia 9 am. Road  
to Salento. Stopped Rio Benito  
& followed up to Salento  
5 PM. Hotel Bolivian

Wea.

WEDNESDAY 26

Ther.

Salento - plants

Wea.

THUR. JULY 27, 1922

Ther.

B

With H. down the trail  
to Boguira & woods up  
Boguira Valley.

Wea.

FRIDAY 28

Ther.

P

Salento - plants

Wea.

SATURDAY 29

Ther.

With H. up valley of  
Santa Rita.  
N.B. - friend - A. Tobon

Wea.

SUN. JULY 30, 1922

Ther.

Salento - plants  
Party with Tobon.

Wea.

MONDAY 31

Ther.

Salento - plants - salient  
trip near town.

Wea.

TUES. AUG. 1

Ther.

Left S. 8 am. by train. Still  
passed thru Lagunita. Night  
at Mojavia in paraiso.



Wea.

WED. AUG. 2, 1922

Ther.

B

Left Mayaguez 7 am. Arrived  
summit of trail (3400 ft) at 10  
am. Lunched at La Catedral 1:30  
pm. Arr. San Juan, along Rio  
Tuche 7:30 pm.

Wea.

THURSDAY 3

Ther.

P

Left S. J. 7 am. Arrived at  
Mayaguez 2:30 pm. Arr.  
Mayaguez, near Palmita  
6:30 pm.

Wea.

FRIDAY 4

Ther.

O

Left S. J. 6:15 am. Arr. Pinar  
8:30. Hotel Europa. Lunched.  
Train at 2:30 am. Arrived  
5:30 pm. Hotel Suisse (at 2:00)  
M.B. - Friend - Adam Morena,  
San Lorenzo, Pinar de San Juan.

Wea.

SAT. AUG. 5, 1922

Ther.

Left S. J. 7:30 am. Arr. Bogota  
10. Hotel de Cole

Wea.

SUNDAY 6

Ther.

Sightseeing in Am. Car to  
Chaparrero. Bus fight  
in P.M.

Wea.

MONDAY 7

Ther.

Market in morning. Lunched  
with Amer. Minister (Payle)  
Inauguration of Pres. Ospina  
in P.M.

Wea.

TUES. AUG. 8, 1922

Ther.

B All day on paranas between  
Guadalupe & Lagoons with Bros.  
Anita Joseph, Dick.

Wea.

WEDNESDAY 9

Ther.

Left B. (Chin) 7:30. Guadalupe  
3:30 pm. Stopped. Boys  
interested in stamps but  
not time to buy any.

Wea.

THURSDAY 10

Ther.

Left S. 7 am. As I began to  
sick with severe fever

Wea.

FRI. AUG. 11, 1922

Ther.

Sick at Ibagu. Still sick. Not  
able to go out. No work.  
No reports. No work. No work.  
No work. No work. No work.

Wea.

SATURDAY 12

Ther.

Sick at Ibagu. Still sick.

Wea.

SUNDAY 13

Ther.

Left Ibagu 6 am. along new  
Guindin Trail, up valley of Rio  
Cuello and Rio Paloma to  
San Miguel, S.P.M. (Fine  
location). Hotel Wilson 2.50



Wea.

MON. AUG. 14, 1922

Ther.

B Left ~~La Lora~~ 8. M. 6:15 am.  
 lunch at La Lora; crossed  
 divide at 3 P. M. night at  
 El Recreo (5:30 p. m.) 1.50

Wea.

TUESDAY 15

Ther.

B Left El R. 7 a. m. ar. Salento  
 (via Calarcá) at noon.  
 Ar. Alasca 6:30 p. m.

Wea.

WEDNESDAY 16

Ther.

Alasca

Wea.

THUR. AUG. 17, 1922

Ther.

Alasca

Wea.

FRIDAY 18

Ther.

Alasca

Wea.

SATURDAY 19

Ther.

Left Alasca 12 m. ar.  
 Salento 4 P. m.

Wea.

SUN. AUG. 20, 1922

Ther.

13 Salento - plants

Wea.

MONDAY 21

Ther.

Do.

Wea.

TUESDAY 22

Ther.

Do.

Wea.

WED. AUG. 23, 1922

Ther.

Do.

Wea.

THURSDAY 24

Ther.

Do.

Wea.

FRIDAY 25

Ther.

Do.



Wea.

SAT. AUG. 26, 1922

Ther.

with H. to Santa Rita Valley  
for butterflies, plants, &  
plants.

Wea.

SUNDAY 27

Ther.

Salento - plants, Sr. Tobón  
to dinner.

Wea.

MONDAY 28

Ther.

Salento - packing

Wea.

TUES. AUG. 29, 1922

Ther.

Left Salento 7 am. Dismounted trail  
to El Roble, branch to main  
Arumina - Phangala road.  
Ar. Pereira 1 P.m. (horse)  
Hotel Colon (#2)

Wea.

WEDNESDAY 30

Ther.

Pereira - packing plants.  
Tripto Rio Thum near town.  
P. & L. left for north.

Wea.

THURSDAY 31

Ther.

Left Pereira (train) 7 am.  
Passed thru Cartago. Ar.  
Puerto Caldas 9 am.  
Hotel Fonda (60 + more) Opera Co.  
Arrived. Left (Freight "Damião")  
6:30 p.m. all night on deck.

Wea.

FRI. SEPT. 1, 1922

Ther.

P. de  
Ar. Zanzal 5 am. Dog out me.  
Walked to Zanzal (Hotel Vesuvio  
400.60) Collected in castles or chest  
country. Left (auto bus 1 pm)  
Ar. Buga 5:30 pm (fare 6.00)  
Hotel España (1.50 night & lunch)

Wea.

SATURDAY 2

Ther.

Left Buga 7 am. Ar. Cali  
9 am. Shopped all day.  
Interview with Relator.  
Called on Gov. To movie  
with Editor Relator.

Wea.

SUNDAY 3

Ther.

Short walk with H. Big  
purple trees. Cock-fight  
ground. "La Sonambula" in  
evening.

Wea.

MON. SEPT. 4, 1922

Ther.

Left Cali 9 am. Ar. La  
Cumbre 11 am. At Smith  
Clinic, same room as  
before.

Wea.

TUESDAY 5

Ther.

fried plants.

Wea.

WEDNESDAY 6

Ther.

with H at 9 am. To Espinal  
Collected in castles  
country along Dagua River.  
Spent night at type of Polyzia  
not usual supper.



Wea.

THUR. SEPT. 7, 1922

Ther.

B Left Espinal 9 am. Dried  
plants at La Cumbre

Wea.

FRIDAY 8

Ther.

Wea.

SUN. SEPT. 10, 1922

Ther.

Wea.

MONDAY 11

Ther.

165 2000  
24.50  
9/10

Wea.

SATURDAY 9

Ther.

Wea.

TUESDAY 12

Ther.

Wea.

WED. SEPT. 13, 1922

Ther.

With Dr. Galloway at 11:30 am.  
to Calima, hacienda of Sr.  
Mejia. NB. Guillermo Uroa -  
just back from London.  
Dr. 5:30 - 20 mile ride.

Wea.

THURSDAY 14

Ther.

Hunted - 8 dogs, 5 men.  
Parks. shot at deer but  
missed. Firing with  
dynamite in P.M.

Wea.

FRIDAY 15

Ther.

Hunting but saw nothing  
Botanizing on slopes of  
Calima, and in forest  
near house in P.M.

Wea.

SAT. SEPT. 16, 1922

Ther.

Left 6 am. Arr. La C. 1 P.M.  
botanizing on way.

Wea.

SUNDAY 17

Ther.

working on plants.

Wea.

MONDAY 18

Ther.

To 2 highest peaks back  
of La C. Palamelo and  
splendid collecting.



Wea.

TUES. SEPT. 19, 1922

Ther.

Walked to "Vista" - few plants.  
Lost machete. Dried plants  
in P.M.

Wea.

WEDNESDAY 20

Ther.

Lt. Tal. 11 am., Cisneros 6 P.M.  
Left at station (Agento Vincente  
Echeverri)

Wea.

THURSDAY 21

Ther.

To Mt above Cisneros  
Ar. at 2 P.M. Ar. Buena.  
(Hotel Internacional)  
Party with Moore, Hentzel.  
Note Heins of Phila.  
Gard of Victor Adkins Her

Wea.

FRI. SEPT. 22, 1922

Ther.

Left B. 7 am. to Santa Rosa  
about 12 thatched huts. Walked  
to about 12 34, collecting P. P. stuff.  
In forest near 12 32. Followed  
Rio Caballero in rain, very  
tropical. Ret. to B. on P.M. train.  
U.S. Consul McMillen

Wea.

SATURDAY 23

Ther.

Left B. 6 am. Ar. Tal. 12:30.  
First speedy trip on this  
line. Boys with valises at  
Cisneros but only not when I  
was there.

Wea.

SUNDAY 24

Ther.

Out in plants of previous  
trip

Wea.

MON. SEPT. 25, 1922

Ther.

Dried plants acc. To "Virela"  
and return by "short" trail in  
P.M.

Wea.

TUESDAY 26

Ther.

Dried plants acc. in P.M.  
went along track then down  
to queer of rails and up to  
forest on other side. Quite  
good the much like woods  
above rails.

Wea.

WEDNESDAY 27

Ther.

Dried plants acc.

Wea.

THURS. SEPT. 28, 1922

Ther.

Went to forest n. w. of  
Pavas. Splendid for orchids.  
This should be worked  
more.

Wea.

FRIDAY 29

Ther.

Plants in acc.

Wea.

SATURDAY 30

Ther.

~~Packed all day~~  
Hiked to woods near  
Hospital. Movie in evening.  
Crowd noisy & hence  
interesting. Rather cold &  
left early.



Wea.

SUN. OCT. 1, 1922

Ther.

Packed all am. intending to go to Cali in P.M. Fever returned suddenly; got a big shot of quinine.

Wea.

MONDAY 2

Ther.

Fever gone but stayed in bed.

Wea.

TUESDAY 3

Ther.

Didn't do much.

Wea.

WED. OCT. 4, 1922

Ther.

Dried plants & repacked.

Wea.

THURSDAY 5

Ther.

Left Medellin 11 am. Ar. Buenaventura 4:30 P.M. Hotel Internacional.

Wea.

FRIDAY 6

Ther.

Hiked around shore of bay with natives. Many fine things.

Wea.

SAT. OCT. 7, 1922

Ther.

Around edge of Bay in  
canoe. Very few things.  
Party up the hill.

Wea.

SUNDAY 8

Ther.

Dried plants.

Wea.

MONDAY 9

Ther.

Train at 6 am to Cordoba.  
Hiked due north to Rio  
Calima. Saw but rather  
good things.

Wea.

TUES. OCT. 10, 1922

Ther.

Worked on plants.  
Bad party up the hill in  
evening.

Wea.

WEDNESDAY 11

Ther.

Packed. Boat expected to  
sail but didn't. Hung  
around with all stuff on  
ship but stayed at hotel.

Wea.

THURSDAY 12

Ther.

Sailed from Buenaventura  
on "Balboa" - 650 tons.  
Struck rough weather  
once out of Bay. Downing  
to McKeimman from Choco  
in same room. Galbraith  
fell off boat.



Wea.

FRI. OCT. 13, 1922

Ther.

Weather very rough and we  
4 Americans only ones not  
to be sick. Had no pep  
however.

Wea.

SATURDAY 14

Ther.

In Balboa Harbor at daybreak.  
Tried to leave ship but  
Capt. Richd. Sailed then came  
arriving at Cristobal at 4:30.  
Hotel Imperial (Room #250).  
Party with Downig & McManis.

Wea.

SUNDAY 15

Ther.

Train at 9 P.M. for Panama  
At Tivoli. Dinner at  
Metropole as in all  
days. Good to see  
familiar sights.

Wea.

MON. OCT. 16, 1922

Ther.

Fixed up with McElvaine for  
govt privileges. Living in  
House 355, near Ancón Y.  
Bella Vista in P.M. Big party  
at Metropole with McManis.

Wea.

TUESDAY 17

Ther.

Dried in am. Climbed  
Ancón Hill in P.M. Small  
party at Metropole.

Wea.

WEDNESDAY 18

Ther.

Spent day between Pijoles &  
Monte Lirio. Best of all  
parties with Joe Wynne &  
Jack Tyrrell. Keeling.  
(See Goddard for Oct. 20)

Wea.

THUR. OCT. 19, 1922

Ther.

Packed all day except for 3  
visits to Powell - orchid  
collector in Balboa.

Wea.

FRIDAY 20

Ther.

Sailed from Cristobal on "Colon"  
43 passengers. Fine weather.  
Room 10. Left Panama 7 am.  
Presented am. in Colon. Photos  
of Ecuador beads.

Wea.

SATURDAY 21

Ther.

Fine weather continuing.  
Worked more or less on  
plants which are  
rapidly sprouting.

Wea.

SUN. OCT. 22 1922

Ther.

Wea.

MONDAY 23

Ther.

Wea.

TUESDAY 24

Ther.



Wea.

WED. OCT. 25, 1922

Ther.

Wea.

THURSDAY 26

Ther.

Wea.

FRIDAY 27

Ther.

Wea.

SAT. OCT. 28, 1922

Ther.

Wea.

SUNDAY 29

Ther.

Wea.

MONDAY 30

Ther.

Wea.

TUES. OCT. 31, 1922

Ther.

Wea.

WED. NOV. 1

Ther.

Wea.

THURSDAY 2

Ther.

Wea.

FRI. NOV. 3, 1922

Ther.

Wea.

SATURDAY 4

Ther.

Wea.

SUNDAY 5

Ther.



Wea. MON. Nov. 6, 1922 Ther.

Wea. THUR. Nov. 9, 1922 Ther.

Wea. TUESDAY 7 Ther.

Wea. FRIDAY 10 Ther.

Wea. WEDNESDAY 8 Ther.

Wea. SATURDAY 11 Ther.

Wea.

SUN. Nov. 12, 1922

Ther.

Wea.

WED. Nov. 15, 1922

Ther.

Wea.

MONDAY 13

Ther.

Wea.

THURSDAY 16

Ther.

Wea.

TUESDAY 14

Ther.

Wea.

FRIDAY 17

Ther.



Wea.

SAT. Nov. 18, 1922

Ther.

Wea.

TUES. Nov. 21, 1922

Ther.

Wea.

SUNDAY 19

Ther.

Wea.

WEDNESDAY 22

Ther.

Wea.

MONDAY 20

Ther.

Wea.

THURSDAY 23

Ther.

Wea.

FRI. NOV. 24, 1922

Ther.

Wea.

MON. NOV. 27, 1922

Ther.

Wea.

SATURDAY 25

Ther.

Wea.

TUESDAY 28

Ther.

Wea.

SUNDAY 26

Ther.

Wea.

WEDNESDAY 29

Ther.



Wea.

THUR. NOV. 30, 1922

Ther.

Wea.

FRI. DEC. 1

Ther.

Wea.

SATURDAY 2

Ther.

Wea.

SUN. DEC. 3, 1922

Ther.

Wea.

MONDAY 4

Ther.

Wea.

TUESDAY 5

Ther.

Wea.

WED. DEC. 6, 1922

Ther.

Wea.

THURSDAY 7

Ther.

Wea.

FRIDAY 8

Ther.

Wea.

SAT. DEC. 9, 1922

Ther.

Wea.

SUNDAY 10

Ther.

Wea.

MONDAY 11

Ther.



Wea.

TUES. DEC. 12, 1922

Ther.

Wea.

WEDNESDAY 13

Ther.

Wea.

THURSDAY 14

Ther.

Wea.

FRI. DEC. 15, 1922

Ther.

Wea.

SATURDAY 16

Ther.

Wea.

SUNDAY 17

Ther.

Wea.

MON. DEC. 18, 1922

Ther.

Wea.

TUESDAY 19

Ther.

Wea.

WEDNESDAY 20

Ther.

Wea.

THUR. DEC. 21, 1922

Ther.

Wea.

FRIDAY 22

Ther.

Wea.

SATURDAY 23

Ther.



Wea.

SUN. DEC. 24, 1922

Ther.

Wea.

WED. DEC. 27, 1922

Ther.

Wea.

MONDAY 25

Ther.

Wea.

THURSDAY 28

Ther.

Wea.

TUESDAY 26

Ther.

Wea.

FRIDAY 29

Ther.

Wea.

SAT. DEC. 30, 1922

Ther.

Wea.

SUNDAY 31

Ther.

NOTES FOR 1923



ADDRESS

TELEPHONE

Mrs. J. C. Kitchell  
20 N. Marshall St.  
Hartford, Conn.

Harriet  
812 S. 5th St.  
Phila.

ADDRESS

TELEPHONE

ADDRESS

TELEPHONE

ADDRESS

TELEPHONE



ADDRESS

TELEPHONE

ADDRESSES

Name

Tel. No.

B

P

P  
h

J

...

# ADDRESSES

Name	Tel. No.
Send to Sr. Tobon #172 Alaska 2 of <u>Quindin Valley</u> near Alaska	
Aquilino Caldas Perezil 7 bague	
Jacinto Baenas La Hora, San Miguel, Toluca de Perdomo	

# INSURANCE

Company	Amount	Premium	Expires
13-13-13-13	13-13-13-13	13-13-13-13	13-13-13-13
1-0-1-0	= 5-1-5-1	5-4-6-5	
4-1-7-6	13-13-13-13	13-13-13-13	
0-2-1-2	7-3-11-5	13-13-13-13	
1-3-13-3	3-5-13-5	3-7-13-13	
8-1-6-4	13-1-6-8	13-1-7-8	
13-10-2-1	13-10-2-4	13-10-2-5	
3-4-3-4	3-5-3-4	13-13-6-10	
0-1-1-1	13-9-13-13	13-13-13-13	
3-0-3-1	9-3-5-1	10-4-5-2	
4.6-3.5-4.2-3.5	9.2-6.3-7.9-6.9	10.1-9.1-9.1-9.5	
11-3-4-0	13-10-4-7	13-13-5-70	
0-7-2-0	5-13-9-6	6-13-12-8	
13-6-13-13	13-8-13-13	13-8-13-13	
1-13-3-9	3-13-5-11	4-13-9-12	
13-10-13-1	13-10-13-2	13-11-13-2	
5-0-0-2	7-0-0-2	7-0-5-4	
10-12-1-4	10-12-1-7	10-13-4-7	
0-2-1-0	0-2-1-0	0-2-5-0	
0-2-1-6	1-2-3-7	1-5-6-9	
0-8-4-2	0-13-5-2	0-13-6-4	
5.3-6.3-4.3-3.7	6.5-7.3-5.4-5.7	7.2-9.1-7.8-6.7	



## MEMORANDA

Date		Dolls.	Cts.
1-1-5-2	1-3-5-2	3-4-5-2	
1-0-0-0	5-1-1-2	7-9-6-7	
6-3-3-0	13-13-13-13	13-13-13-13	
5-3-6-4	5-3-6-5	5-8-12-6	
2-0-2-2	3-3-4-9	3-6-4-10	
1-1-1-0	4-1-4-1	5-2-10-1	
1-1-0-0	1-2-6-0	1-3-9-1	
1-0-0-2	2-0-1-3	5-13-6-13	
1-4-0-3	1-4-5-3	2-4-5-5	
0-0-6-3	0-6-7-9	2-7-13-10	
1.7-1.3-2.3-1.6	3.2-3.6-5.2-4.7	4.3-6.9-8.3-6.8	
0-13-0-0	1-13-0-0	3-13-0-0	
3-5-1-0	5-5-1-1	5-5-1-1	
4-1-4-2	4-3-6-3	7-13-10-13	
12-3-0-1	12-3-0-4	13-13-13-13	
13-13-13-13	13-13-13-13	13-13-13-13	
1-2-0-0	2-4-7-2	2-6-13-3	
0-5-13-4	13-13-13-13	13-13-13-13	
1-0-2-0	13-13-7-4	13-13-8-7	
13-13-13-13	13-13-13-13	13-13-13-13	
10-13-13-13	10-13-13-13	10-13-13-13	
5.7-6.8-4.7	8.6-9.3-7.3-6.6	9.2-11.5-9.7-8.9	

5.8

4.6-3.7-7.5-7.4

## MEMORANDA

19.7-7.9-10.1-10.7

Date		Dolls.	Cts.
0-13-2-5	1-13-2-9	3-13-4-9	
3-9-10-0	5-12-3-4	6-13-13-6	
2-13-3-9	8-13-3-9	8-13-3-9	
2-11-13-9	13-13-13-13	13-13-13-13	
1-13-12-3	13-13-13-13	13-13-13-13	
0-1-0-1	4-13-0-1	13-13-9-4	
0-3-0-4	0-3-0-4	3-3-3-5	
1-1-1-0	1-2-6-2	6-5-13-13	
2-4-0-0	10-13-13-6	10-13-13-6	
13-7-7-13	13-7-7-13	13-13-13-13	
<del>6-8-13-13</del>	<del>6-8-13-13</del>	<del>7-8-13-13</del>	
2.5-7.1-4.4-4.4	6.8-10.2-6.0-7.5	8.8-11.2-9.7-9.1	
6-8-13-13	6-8-13-13	7-8-13-13	
3-7-4-5	4-7-4-5	6-8-4-5	
6-9-12-1	13-13-13-13	13-13-13-13	
3-0-3-9	13-5-13-13	13-7-13-13	
2-0-1-4	2-0-5-4	3-1-5-4	
2-1-13-13	2-3-13-13	13-4-13-13	
13-5-13-13	13-13-13-13	13-13-13-13	
1-0-7-3	13-13-13-13	13-13-13-13	
9-7-9-13	13-9-13-13	13-10-13-13	
1-0-0-0	3-0-1-4	7-2-1-7	



Aver. ① 4.45 - ② 7.07 - ③ 8.71 | B-C-<sup>H</sup><sub>5</sub>

BILLS RECEIVABLE

Date	Name	Dolls.	Cts.
1-1-3-0	13-1-3-7	13-6-13-13	
0-2-0-2	13-13-13-13	13-13-13-13	
0-0-2-0	13-13-13-13	13-13-13-13	
8-6-4-1	8-13-4-4	9-13-5-4	
8-13-0-3	2-13-1-6	2-13-1-6	
0-0-6-9	2-8-13-12	2-13-13-13	
3-2-2-2	3-3-3-3	4-4-3-3	
4-11-6-13	5-13-8-13	5-13-8-13	
6-0-3-0	13-6-6-3	13-6-7-5	
0-1-0-1	13-13-13-13	13-13-13-13	
6-13-2-3	6-13-2-4	7-13-8-4	
1-0-13-2	1-3-13-10	4-7-13-12	
4-0-0-1	13-5-9-3	13-13-13-13	
1-10-1-13	1-11-2-13	8-13-6-13	
0-7-3-0	2-7-3-1	3-13-3-2	
1-6-1-2	13-11-9-13	13-11-9-13	
13-13-0-13	13-13-1-13	13-13-1-13	
0-1-0-0	4-6-7-13	4-13-10-13	
3-5-0-13	4-6-8-13	5-9-8-13	
8-13-2-2	9-13-13-2	10-13-13-3	

BILLS PAYABLE

Date	Name	Dolls.	Cts.
4-0-1-4	7-0-3-11	13-2-8-13	
0-2-1-7	1-2-1-8	13-9-11-11	
1-13-13-10	3-13-13-10	3-13-13-3	
3-13-13-7	13-13-13-7	13-13-13-7	
3-13-13-13	13-13-13-13	13-13-13-13	
7-8-0-11	13-10-0-12	13-13-13-13	
13-13-13-13	13-13-13-13	13-13-13-13	
4-13-7-13	4-13-10-13	13-13-13-13	
2-1-2-4	3-2-7-5	13-2-13-10	
8-5-3-13	9-8-6-13	13-13-13-13	
2-13-1-2	2-13-1-4	2-13-3-4	
2-13-5-6	2-13-5-7	2-13-6-11	
1-4-1-1	13-13-10-13	13-13-10-13	
4-3-2-1	5-3-4-8	11-4-5-9	

# CASH ACCOUNT—JANUARY

Date

Received

Paid

# CASH ACCOUNT—JANUARY

Date

Received

Paid

# CASH ACCOUNT—FEBRUARY

Date

Received

Paid

# CASH ACCOUNT—FEBRUARY

Date

Received

Paid



# CASH ACCOUNT—MARCH

Date

Received

Paid

# CASH ACCOUNT—MARCH

Date

Received

Paid

# CASH ACCOUNT—APRIL

Date

Received

Paid

*G. Exp*

*Aug.*

# CASH ACCOUNT—APRIL

Date

Received

Paid

8/19-21

Luis

6 50

Aguilera (cuenta)

2 00

Carbon

1 50

22

Luis

20

21

" (personal)

40

21

Remanolo

1 00

### CASH ACCOUNT—MAY

[illegible]

## CASH ACCOUNT - MAY

[illegible]



CASH ACCOUNT—JUNE

Date

Received

Paid

CASH ACCOUNT—JUNE

Date

Received

Paid

### CASH ACCOUNT—JULY

[illegible]

## CASH ACCOUNT—JULY

[illegible]

# Personal Exps. on Bangkok Trip

## CASH ACCOUNT—AUGUST

Date		Received	Paid
8/4	Lunch & baggage	1 00	
	Taxi	1 00	
	Boat to Riverside	2 30	
	Taxi	50	
8/5	Hotel	2 40	
	Tips	50	
	Boat to Bangkok	5 18	
	Lunch on train	60	
	Cab to hotel	1 00	
8/6	Bus fare	4 50	
8/7	Lunch	4 50	
	Shampoo	30	
	Hypnotist		
	Porterage	70	
8/8	Cabs	1 80	
8/9	Hotel bill	11 40	
	Cab	1 00	
	Tips	40	
	Boat to Riverside	5 28	
	Lunch	80	
8/9	Loche	1 00	
	Medicine	30	
		46 51	

# Cont.

## CASH ACCOUNT—AUGUST

Date		Received	Paid
8/9	Aero post	46 51	
	G.C.	33	
	Postcard	30	
	Taxi for lunch	1 00	1 00
	Airfare	20	
	Postcard	40	
	Cigarettes	40	
	Tailor	10	
8/10	Hotel bill	2 40	
	Tips	20	
	Boys	1 00	
	Taxi	1 00	
	Boat to Riverside	2 30	
	Taxi	1 00	
	Tips	20	
	Telegram	22	
	Man for machine	2 00	
8/4-8/9	Paper & postage	45	
		60 01	
		1 70	
		61 71	
		32 30	1 70
		94 01	



6001  
CASH ACCOUNT—SEPTEMBER

Date		Pd. Received		Rec'd Paid	
8/11	Man - meals	1	00		
	" - trousers		50		
8/12	" meals	1	00		
	Dr. bill	11	70		
8/12	Cash on hand 11 AM			16	78
	Hotel	9	00		
	Mules	5	00		
		8	77 1/2		
			1 70		
		8	94 1/2		
			3 1/2		
		9	28 1/2		

CASH ACCOUNT - SEPTEMBER

Date		Received		Paid	
	Budget				
		16	78		
8/12	Hotel			6	25
	Mules			3	25
	Pay for mules	11	50	7	00
		5	28		

# CASH ACCOUNT—OCTOBER

Date

Received

Paid

# CASH ACCOUNT—OCTOBER

Date

Received

Paid

# CASH ACCOUNT—NOVEMBER

Date

Received

Paid

# CASH ACCOUNT—NOVEMBER

Date

Received

Paid



# CASH ACCOUNT—DECEMBER

Date

Received

Paid

# CASH ACCOUNT—DECEMBER

Date

Received

Paid

# SUMMARY

	Received	Paid
Cash on hand Jan. 1		
JANUARY		
FEBRUARY		
MARCH		
APRIL		
MAY		
JUNE		
JULY		
AUGUST		
SEPTEMBER		
OCTOBER		
NOVEMBER		
DECEMBER		
TOTAL		
Bal. to new acct.		

## Information necessary for the identification and recovery of car in case it is stolen

Name.....

Model.....

HP.....

Style.....

Passengers.....

Color.....

Motor No.....

License No.....

Body No.....

Top No.....

Starter No.....

Magneto No.....

Radiator No.....

Transmission No.....

Clutch No.....

Steering Post No.....

Front Axle No.....

Rear Axle No.....

### TIRES—Make, Size and Number

Front Right.....

Front Left.....

Rear Right.....

Rear Left.....

### Other Identification Marks:

## NEW YORK TO CHICAGO--St. Louis Tour

New York to	Miles.	New York to	Miles.
Yonkers	17	Ashtabula	605
Tarrytown	27	Painesville	633
Peekskill	44	Cleveland	666
Fishkill Village	62	Elyria	692
Poughkeepsie	76	Birmingham	706
Rhinebeck	92	Norwalk	721
Hudson	118	N. Monroeville	730
Albany	150	Clyde	744
Schenectady	168	Stony Ridge	776
Fonda	195	Toledo	787
Little Falls	226	Java	803
Utica	250	Wauseon	824
Oneida	277	Stryker	844
Syracuse	299	Edgerton	864
Weedsport	321	Waterloo	880
Lyons	354	Kendallville	894
Newark	360	Ligonier	912
Rochester	389	Goshen	928
Batavia	425	Elkhart	939
Bowmanville	451	South Bend	956
Buffalo	462	Rolling Prairie	976
Silver Creek	497	La Porte	985
Fredonia	506	Valparaiso	1,009
Westfield	526	Hobart	1,022
State Line	537	Hammond	1,039
Erie	556	Pullman	1,049
Girard	572	Chicago	1,064
Conneaut	591		

## NEW YORK TO PHILADELPHIA

New York to	Miles.	New York to	Miles.
St. George, S. I.	5	Trenton	64
Perth Amboy	21	Bordentown	71
New Brunswick	32	Bridgeborough	89
Cranbury	47	Philadelphia	102

## NEW YORK TO BUFFALO--Via Binghamton

New York to	Miles.	New York to	Miles.
Newburg	60	Binghamton	236
Kingston	94	Elmira	300
Pine Hill	129	Bath	340
Delhi	165	Geneseo	392
Unadilla	192	Buffalo	460

## NEW YORK TO BOSTON

New York to	Miles.	New York to	Miles.
New Rochelle	18	Windsor Locks	134
Stamford	36	Springfield	148
Norwalk	44	Palmer	164
Bridgeport	58	Brookfield	181
Milford	66	Worcester	199
New Haven	79	Northboro	210
Wallingford	93	Southboro	217
Meriden	99	S. Framingham	225
New Britain	110	Natic	229
Hartford	121	Boston	246





# TOURS

## BOSTON TO WHITE MOUNTAINS and NEW YORK

(ODOMETER RECORDS)

Boston to Magnolia	36 miles
Via Lynn, Salem, Marblehead, Beverly.	
Magnolia to Portsmouth, N. H.	46 "
Via Manchester, Essex, Ipswich, Newburyport, Seabrook and Hampton.	
Portsmouth to Conway	80 "
Via Dover, Rochester, Milton and Ossipee.	
Conway to Bretton Woods	37 "
Via Bartlett, Bemis and Crawford's Notch.	
Bretton Woods to Profile House	28 "
Via Bethlehem.	
Profile House to Woodstock	78 "
Via Easton, Dannville, Swiftwater, Hanover, White River Junction, Hartford and Quechee.	
Woodstock to Manchester	66 "
Via Rutland.	
Manchester to Pittsfield, Mass.	96 "
Via Bennington, Vt., and Williamstown, Mass.	
Pittsfield to Newburgh, N. Y.	98 "
Via Salisbury, Ct., Sharon, Matteawan, Fishkill Landing, Ferry to Newburgh.	
Newburgh to New York	64 "
Via Hackensack and Fort Lee.	

## BOSTON TO ALBANY

Boston to	Miles.	Boston to	Miles.
Worcester	45	Pittsfield	149
Springfield	97	Albany	189

# TABLE OF SPEEDS

TO DETERMINE THE RATE AT WHICH THE CAR IS TRAVELING BY TAKING THE TIME FOR ONE MILE

TIME OF 1 MILE	MILES PER HOUR	TIME OF 1 MILE	MILES PER HOUR	TIME OF 1 MILE	MILES PER HOUR
M. S.		M. S.		M. S.	
I 0	60	I 26	41.9	I 52	32.1
I 1	59	I 27	41.4	I 53	31.8
I 2	58	I 28	40.9	I 54	31.6
I 3	57.1	I 29	40.4	I 55	31.3
I 4	56.3	I 30	40	I 56	31
I 5	55.4	I 31	39.6	I 57	30.8
I 6	54.5	I 32	39.1	I 58	30.5
I 7	53.7	I 33	38.7	I 59	30.2
I 8	53	I 34	38.3	2 0	30
I 9	52.2	I 35	37.9	2 4	29
I 10	51.4	I 36	37.5	2 8	28
I 11	50.7	I 37	37.1	2 13	27
I 12	50	I 38	36.7	2 18	26
I 13	49.4	I 39	36.4	2 24	25
I 14	48.6	I 40	36	2 30	24
I 15	48	I 41	35.7	2 36	23
I 16	47.4	I 42	35.3	2 43	22
I 17	46.7	I 43	34.9	2 51	21
I 18	46.2	I 44	34.6	3 0	20
I 19	45.6	I 45	34.3	3 9	19
I 20	45	I 46	34	3 20	18
I 21	44.4	I 47	33.7	3 31	17
I 22	43.9	I 48	33.4	3 45	16
I 23	43.3	I 49	33	4 0	15
I 24	42.8	I 50	32.7	7 30	8
I 25	42.4	I 51	32.4		

# RUNNING TIME

JANUARY				FEBRUARY				MARCH			
1	2	3	4	1	2	3	4	1	2	3	4
APRIL				MAY				JUNE			
JULY				AUGUST				SEPTEMBER			
OCTOBER				NOVEMBER				DECEMBER			

# MILES RUN

JANUARY				FEBRUARY				MARCH			
1	2	3	4	1	2	3	4	1	2	3	4
APRIL				MAY				JUNE			
JULY				AUGUST				SEPTEMBER			
OCTOBER				NOVEMBER				DECEMBER			

# TIRE RECORD

PUT ON	WHEEL	TAKEN OFF	MILEAGE	MAKE	REMARKS

# CASH ACCOUNT

[illegible]



# CASH ACCOUNT

[illegible]

# CASH ACCOUNT

[illegible]

## TRIP RECORD

DATE	FROM	TO	MILEAGE	TIME	REMARKS

## TRIP RECORD

DATE	FROM	TO	MILEAGE	TIME	REMARKS







13

5





